

# ACTIVITY REPORT

2018- 2019

Birla Industrial & Technological Museum  
&  
Shrikrishna Science Centre, Patna  
Regional Science Centre, Bhubaneswar  
North Bengal Science Centre, Siliguri  
Digha Science Centre & National Science Camp  
District Science Centre, Purulia  
Bardhaman Science Centre  
Dhenkanal Science Centre  
Kapilas Science Park

With best compliments from

**Shri A. D. Choudhury**  
Director General  
National Council of Science Museums

**Shri V S Ramachandran**  
Director  
Birla Industrial & Technological Museum

Birla Industrial & Technological Museum  
(National Council of Science Museums, Ministry of Culture, Govt. of India)  
19A, Gurusaday Road, Kolkata - 700 019  
Phone - 2287 7241/42/43, 9477345290/1/2  
Email: [director@bitm.gov.in](mailto:director@bitm.gov.in), website: [www.bitm.gov.in](http://www.bitm.gov.in)  
Facebook - [www.facebook.com/bitm.kolkata](http://www.facebook.com/bitm.kolkata)

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## Message

Dear all,

Greetings from BITM.

Taking over as Director BITM in November 2018, the first science and technology museum of India was an extremely thrilling at the same time a challenging task for me. I was now not only heading a national level museum, but with it, came the responsibility of eight satellite units in eastern India - four in West Bengal (Digha Science Centre; NBSC Siliguri; Bardhaman Science Centre, DSC Purulia), three in Odisha (RSC, Bhubaneswar; Dhenkanal Science Centre; Kapilas Science Park) and one in Bihar (namely SSC, Patna).

My immediate goal was to haul up the visitors' facilities in all the centres under my control including BITM and imbibe a sense of responsibility to all staff members towards increasing the footfall of all centres. In this regard, I am glad to notice, within three/four months, a sea change in the attitude of the staff members towards serving the bonafide interest of the organization. Their renewed vigour has already shown some results in terms of increased visitors during the last quarter of 2018-19.

Our interaction with State Governments have increased in West Bengal, Bihar and Odisha. Government Officials are seen taking keen interest in the activities of our units in all the three states. The number of student visit from Govt. schools are showing positive signs compared to previous years.

In fact, with constant interaction with all schools, both government and private, with the new galleries and facilities in the offing, I am sure BITM and its units will stand tall in the mind of the people of their respective cities.

Thank you all.

**V. S. Ramachandran**  
*Director, BITM*



## General Information

### 1. Birla Industrial & Technological Museum

- i. Name of Head of Museum : Shri V. S. Ramachandra, Director  
ii. Full Address : 19A, Gurusaday Road, Kolkata - 700019  
iii. Phone No and : 033 2287 7241, 2287 7242, 2287 7243, 9477345291/2, iv. Fax : 22870233  
v. Email : director@bitm.gov.in vi. Website:www.bitm.gov.in  
vii. Hours of opening : 9:30 am to 6:00 pm on weekdays, 10:30 am to 8:00 pm on Saturdays and Sundays)  
viii. Closed to visitors on : Doljatra and Kalipuja  
ix. Entry Fee : a) Museum Entry  
***New Ticket Rates implemented from 1st April September 2019***  
i. General Visitors - Rs.50.00 per head  
ii. 25 or more Visitors in a group - Rs.40.00 per head  
iii. Students in Groups - Rs.20.00 per head  
iv. Govt. School Students in Group - Rs.10.00 per head  
b) Taramandal Show  
i. General Visitors & Students - Rs. 10.00 per head,  
ii. Govt. School Students in Group - Rs.5.00 per head  
c) Coal Mine Show  
i. General Visitor - Rs. 15.00 per head,  
ii. 25 or more Visitors in a group : - Rs.10.00 per head  
iii. School Group - Rs. 5.00 per head  
d) 3D show  
i. General Visitors- Rs. 30.00 per head  
ii. 25 or more Visitors in a group - Rs.25.00 per head  
iii. School Group - Rs. 20.00 per head,  
iv. Govt. School Students in Group - Rs.15.00 per head  
e) Science Show  
i. General Visitors & Students - Rs. 10.00 per head  
ii. Govt. School Students in Group - Rs.5.00 per head  
x. Inaugurated on : 2nd May 1959  
xii. Floor Area in Sq. mtrs.: 10351.95  
f) Package Rate Tickets  
(includes one science show + 3D show + coal mine show + visit to all galleries + Chromakey shows in TV + Show in Spark Theatre + Math demo in Mathematics Gallery  
i. General Visitors- Rs. 75.00 per head  
ii. 25 or more Visitors in a group : - Rs.65.00 per head  
iii. School Group - Rs. 45.00 per head,  
iv. Govt. School Students in Group - Rs.30.00 per head

### 2. . RSC, Bhubaneswar

- i. Name of Head of Centre : Shri H.P. Mishra, Project Coordinator  
ii. Full Address : Pt. J. L. Nehru Marg, Bhubaneswar - 751 013, Odisha  
iii. STD Code with Phone No : 0674 2542795, 2541435  
iv. Email: rscbbsr@yahoo.com, rscbbsr@rediffmail.com  
v. Website : www.rscbhubaneswar.org  
vi. Hours of opening : 10:00 am to 6:30 pm  
vi. Closed to visitors on : Holi & Diwali  
vii. Entry Fee : a) Centre Entry  
i. General Visitors - Rs.25.00 per head  
ii. 25 or more Visitors in a group - Rs.20.00 per head  
iii. Students in Groups - Rs.10.00 per head  
iv. Govt. School Students in Group - Rs.5.00 per head  
b) Jurassic Park  
i. General Visitors - Rs. 20.00 per head  
ii. 25 or more in a group - Rs. 15.00 per head  
iii. Students in Groups - Rs.10.00 per head  
iv. Govt. School Students in Group - Rs.5.00 per head  
c) Taramandal Show  
i. General Visitors & Students : Rs 10.00 per head  
ii. Govt. School Students in Group - Rs.5.00 per head

## 2. RSC, Bhubaneswar (Contd.)

### d) Science Show

- i. General Visitors & Students - Rs 10.00 per head
- ii. Govt. School Students in Group - Rs.5.00 per head

### e) 3D Show

- i. General Visitors - Rs. 25.00 per head
- ii. 25 or more Visitors in a group - Rs. 20.00 per head
- iii. Students in Groups - Rs. 15.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

viii. Inaugurated on :

18th Sept 1989

ix. Floor Area in Sq. mtrs:

4307.79

## 3. SSC, Patna

i. Name of Head of Centre :

Shri Amitabh, Project Coordinator

ii. Full Address :

West Gandhi Maidan, Patna - 800001

iii. STD Code with Phone No :

0612 2206992

iv. Email :

vigyankendrapatna@gmail.com

v. Website :

<http://www.sksciencecentre.org/>

vi. Hours of opening :

10 am to 6 .30 pm (March to Oct), 9.30 am to 6 pm (Nov to Feb)

vii. Closed to visitors on :

Holi & Diwali

viii. Entry Fee :

### a) Centre Entry

- i. General Visitors - Rs. 30.00 per head
- ii. 25 or more Visitors in a group - Rs. 20.00 per head
- iii. Students in Groups - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 5.00 per head

### b) Taramandal Show

- i. General Visitors & Students in group - Rs. 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

### c) Science Show

- i. General Visitors & Students in group - Rs. 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

### d) 3D Show

- i. General Visitor - Rs. 25.00 per head
- ii. 25 or more Visitors in a group - Rs. 20.00 per head
- iii. School Group - Rs. 15.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

### e) Space & Astronomy Centre

- i. General visitor - 25.00 per head
- ii. 25 or more Visitors in a group - 25.00 per head
- iii. Student in group - 15.00 per head
- iv. Govt. Student in group - 15.00 per head

ix. Inaugurated on :

14th April 1978

x. Floor Area in Sq. mtrs : 5000.69

## 4. DSC, Purulia

i. Name of Head of Centre :

Shri Dhrubajyoti Chattopadhaya, District Project Officer

ii. Full Address :

North Lake Road, Purulia - 723101

iii. Phone No :

9593383386

iv. Email :

dscpurulia@gmail.com, districtsciencecentrepurulia@gmail.com

v. Hours of opening :

10:30 am to 7:00 pm

vi. Closed to visitors on :

Doljatra and Kalipuja

vii. Entry Fee :

### a) Centre Entry

- i. General Visitors - Rs. 15.00 per head
- ii. 25 or more Visitors in a group - Rs. 10.00 per head
- iii. Students in Groups - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 5.00 per head

### b) Taramandal Show

- I) General Visitors & Students - Rs. 10.00 per head
- II) Students in groups - Re. 5.00 per head

### c) Science Show

- I) General Visitors & Students - Rs. 10.00 per head
- II) Students in groups - Re. 5.00 per head

**DSC, Purulia (Contd.)**

d) 3D Show

- i) General Visitors & Students - Rs. 20.00 per head
- ii) 25 or more in a group - Rs. 15 per head
- iii) Students in groups - Re. 10.00 per head
- e) Royal Museum Tour Package for General (Entry & including all show) – Rs. 35.00
- f) Gold Museum Tour Package for General (Entry & including 3D) – Rs.25.00

viii. Inaugurated on : 15<sup>th</sup> Dec, 1982      ix. Floor Area in Sq. mtrs : 1637

**5. Science Centre, Bardhaman**

i. Name of Head of Centre : Shri Niranjana Gupta, Project Coordinator  
ii. Full Address : Ramna Maidan, Baburbag P.O. Rajbati Dist. Purba Bardhaman- 713104

iii. STD Code with Phone No : 0342 2657844

iv. Email : [sciencecentrebwn@gmail.com](mailto:sciencecentrebwn@gmail.com)

v. Hours of opening : 10 am to 6:30 pm

vi. Closed to visitors on : Doljatra and Kalipuja

vii. Entry Fee : Centre Entry

- i. General Visitors - Rs. 20.00 per head
- ii. 25 or more in a Group : Rs. 15.00 per head
- iii. Organised School Group : Rs. 10 per head
- iv. Govt. Schools students in Group : Rs. 5.00 per head

Taramandal Show

- i. General Visitors– Rs. 10.00 per head
- ii. Students in Group : Rs. 5.00 per head

Science Show

- i. General Visitors– Rs. 10.00 per head
- ii. Students in Group : Rs. 5.00 per head

3D Show

- i. General Visitors - Rs. 25.00 per head
- ii) 25 or more in a group - Rs. 20 per head
- ii. Students in Group : Rs. 10.00 per head

viii. Inaugurated on : 9th January 1994      ix. Floor Area in Sq. mtrs : 2117 Sq. Mtrs

**6. Dhenkanal Science Centre**

i. Name of Head of Centre : Shri Nikunja Bihari Sahu, District Science Officer

ii. Full Address : Near Rajbati, At/Po/Dist- Dhenkanal- 759001

iii. STD Code with Phone No : 06762 224155

iv. Email : [funsciencedkl@gmail.com](mailto:funsciencedkl@gmail.com)

v. Hours of opening : 9:30 am - 6:00 pm

vi. Closed to visitors on : Holi & Diwali

vii. Entry Fee :

a) Centre Entry

- i. General Visitors - Rs. 15.00 per head
- ii. Students in Group- Rs. 10 per head
- iii. Govt. School Students in Group - Rs. 5.00 per head

b) Taramandal Show

- i. General Visitors - Rs. 10.00 per head
- ii. Students in Group- Rs. 10.00 per head
- iii. Govt. School Students in Group - Rs. 5.00 per head

c) 3D show

- i. General Visitors - Rs. 15.00 per head
- ii. Students in Group- Rs. 10.00 per head
- iii. Govt. School Students in Group - Rs. 10.00 per head

d) Science Show

- i. General Visitors - Rs. 10.00 per head
- ii. Students in Group - Rs. 10.00 per head
- iii. Govt. School Students in Group - Rs. 5.00 per head

### **Dhenkanal Science Centre (Contd.)**

viii. Inaugurated on : 5th June 1995  
ix. Floor Area in Sq. mtrs : 1280

### **7. Kapilas Science Park**

i. Name of Head of Centre : Shri Nikunja Bihari Sahu, District Science Officer  
ii. Full Address : P.O. Deogaon, Near Kapilas Zoo, Dist. Dhenkanal- 759016  
iii. STD Code with Phone No : 06762 280544  
iv. Email : funsciencedkl@gmail.com  
v. Hours of opening : 9:00 am to 5:00 pm  
vi. Closed to visitors on : Holi & Diwali  
vii. Entry Fee :  
i. General Visitors - Rs 10.00 per head  
ii. Students in Group - Rs. 5.00 per head  
viii. Inaugurated on : 5th June 1995  
ix. Floor Area: 4.8 acres (Park)

### **8. NBSC, Siliguri**

i. Name of Head of Centre : Shri Ritabrata Biswas, Project Coordinator  
ii. Full Address : Post Matigara Siliguri - 734010 Dist. Darjeeling  
iii. STD Code with Phone No : 0353 2571229  
iv. Email & Website: nbscsiliguri@bsnl.in / nbscsiliguri1997@gmail.com  
<http://www.nbscsiliguri.org>  
v. Hours of opening : 10:30 am to 7 pm  
vi. Closed to visitors on : Holi & Diwali  
vii. Entry Fee :  
a) Centre Entry  
i. General Visitors - Rs. 25.00 per head  
ii. 25 or more Visitors in a group - Rs. 20.00 per head  
iii. Students in Groups - Rs. 10.00 per head  
iv. Govt. School Students in Group - Rs. 5.00 per head  
b) Digital Planetarium  
i. General Visitors - Rs. 25.00 per head  
ii. 25 or more in a group - Rs. 20.00 per head  
iii. Students in Groups - Rs. 15.00 per head  
iv. Govt. School Students in Group - Rs. 10.00 per head  
c) Taramandal Show  
i. General Visitors & Students in a group : Rs. 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head  
d) Science Show  
i. General Visitors & Students in a group - Rs 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head  
e) 3D Show  
i. General Visitor - Rs 20.00 per head  
ii. 25 or more Visitors in a group - Rs. 15.00 per head  
iii. School Group - Rs. 10.00 per head  
iv. Govt. School Students in Group - Rs. 10.00 per head  
viii. Inaugurated on : 17th Aug 1997  
ix. Floor Area in Sq. mtrs: 2598

### **9. Digha Science Centre & National Science Camp**

i. Name of Head of Centre : Shri Niranjan Gupta, Project Coordinator  
ii. Full Address : Fore shore Road, New Digha- 721 463 West Bengal  
iii. STD Code with Phone No : 03220 266360  
iv. Email : dscdigha@gmail.com  
v. Hours of opening: 9 am to 7 pm  
vi. Closed to visitors on : Doljatra and Kalipuja

## Digha Science Centre & National Science Camp

vii. Entry Fee :

### a) Centre Entry

- i. General Visitors - Rs.25.00 per head
- ii. 25 or more Visitors in a group - Rs.20.00 per head
- iii. Students in Groups - Rs. 15.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

### b) Taramandal Show

- i. General Visitors & Students in a group - Rs. 10.00 per head
- ii. Govt. School Students in Group - Rs.5.00 per head

### c) Science Show

- i. General Visitors & Students in a group - Rs 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

### d) 3D Show

- i. General Visitors- Rs 20.00 per head
- ii. 25 or more Visitors in a group - Rs. 15.00 per head
- iii. School Group - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

### e) Sky Observation Programme – Rs. 5.00 per head.

### f) Space & Astronomy Centre

- i. General Visitors- Rs.25.00 per head
- ii. 25 or more Visitors in a group – Rs. 20.00 per head
- iii. Students in groups – Rs.15.00 per head
- iv. Govt. School Students in Group – Rs. 10.00 per head

viii. Inaugurated on :

31st Aug 1997

ix. Floor Area in Sq. mtrs :

2589.25

### ***Inauguration of Innovation Hub***

<b>Innovation Hub</b>	
<i>Name of the Museum</i>	<i>Date of Inauguration</i>
BITM, Kolkata	23 <sup>rd</sup> August, 2013
Bardhaman Science Centre	10 <sup>th</sup> July, 2015
SSC, Patna	7 <sup>th</sup> October, 2016
NBSC, Siliguri	16 <sup>th</sup> February, 2018
RSC, Bhubaneswar	11 <sup>th</sup> July, 2018.
Digha Science Centre	26 <sup>th</sup> February, 2019

### ***Inauguration of Biotech lab***

<b>Biotechnology Lab</b>	
BITM, Kolkata	2 <sup>nd</sup> May, 2017

### ***Inauguration of Space & Astronomy Centre***

<b>Space and Astronomy Centre</b>	
<i>Name of the Museum</i>	<i>Date of Inauguration</i>
NBSC, Siliguri	3 <sup>rd</sup> April, 2010
SSC, Patna	7 <sup>th</sup> October, 2016
Digha Science Centre	9 <sup>th</sup> February, 2018

### ***Inauguration of Science on a Sphere***

<b>Science on a Sphere</b>	
<i>Name of the Museum</i>	<i>Date of Inauguration</i>
SSC, Patna	9 <sup>th</sup> April, 2018





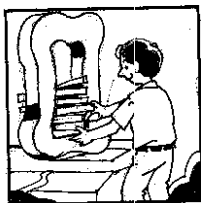
### Visitors to Museum/Centre

	BITM Kolkata	RSC, Bhub	SSC, Patna	DSC, Purulia	Sc. Cent. Bardh	Sc. Cent Dhen	N.B.Sc. Cent. Sili	Digha Sc. Cent	Kapilas Sc. Park
School Groups	945	446	2300	276	421	51	970	467	107
Students	89385	27344	130557	42952	72328	3272	54055	30223	5960
Visitors in spl. prog	16276	34110	66510	22488	38104	16466	32814	10020	2830
General visitors	113950	114320	233901	153855	113756	31110	252149	488601	16528
In-house- Visitors during the year	219611	175774	430968	219295	224188	50848	339018	528844	25318
Outreach Visitors including visitors in MSE	357930	95730	487350	96733	225162	71283	127297	0	0
Total Visitors during 2017-18	577541	271504	918318	316028	449350	122131	466315	528844	25318
Visitors since inaug.	15507189	5801503	7963426	8354023	4240785	609112	4441241	6234015	158057



### Mobile Science Exhibition

Museum/Centre	Title of the Unit	Museum that developed the unit	No. of Exhibits	Year in which developed
BITM, Kolkata	Heat & Temp.	RSC, Bhub.	20	2010
BITM, Kolkata	Mathematics	NBSC, Siliguri	20	2007
SSC, Patna	Popular Science	BITM Kolkata	20	2018
RSC, Bhub	Mathematics	RSC, BBSR	20	2011
	Electricity & Magnetism	RSC, BBSR	24	2012
DSC, Purulia	Popular Science	BITM, Kolkata	24	2012
SC, Bardhaman	Fun Science	BITM, Kolkata	24	2013
N.B.S.C., Siliguri	Hands on Science	BITM, Kolkata	24	2014
SC, Dhenkanal	Popular Science	BITM	24	2012



## Existing Galleries

Museum/Centre	Name of the Gallery	Floor Area (Sq. mtr.)	Year of Inauguration	No. of Exhibits
Birla Industrial & Technological Museum, Kolkata	Transport	350	1973 & 2008	94
	Mock-up Coal Mine	475	1983 & 2008	65
	Motive Power Hall 1	475	2001	34
	Motive Power Hall 2	210	1962 & 2005	47
	Metals	360	2003	50
	Fascinating Physics	189	2006	65
	Television	255	2006	67
	Popular Science	210	1964 & 2007	45
	Mathematics	475	2009	45
	Children's gallery	260	1988 & 2010	42
	Electricity	170	1984 & 2015	66
World in Darkness	265	2009	19	
Shrikrishna Science Centre, Patna	Mirror Image & 3D	462	2010 & 2013	53
	Fun Science	400	2008 & 2016	63
	Evolution	400	1996	67
	Ocean Gallery, Hall of Activity & Mirror	-	-	-
	Section	260	-	71
	S. K Singh Gallery	50	1978	20
Regional Science Centre, Bhubaneswar	Popular Science	550	2009	60
	Motion	465	2004	39
	Mathematics	465	2006 & 2015	86
	Mirror Magic	168	2018	20
District Science Centre, Purulia	Wealth of Purulia	186	2005	31
	Popular Science	186	2010	40
	Children's Gallery	95	2011	21
	Life Science	186	2016	35
Bardhaman Science Centre	Human Performance	450	2002	30
	Life Science & Fun Science	450		26
			2011	14
Dhenkanal Science Centre	Popular Science - I	225	1995	42
	Mirror	225	1995 & 2010	30
	Life Science	225	2018	15
North Bengal Science Centre, Siliguri	Fun Science	380	2010	37
	Popular Science	380	1997	19
	Life Science & Children's Corner	120	1997	12
	Nature Interpretation	400	2001	17
	Light, Mirrors & Images	380	2017	32
Digha Science Centre	Life Science	247	2006	28
	Reflection	247	2010	30
	Fun Science	247	2014	32

## **NEW FACILITIES**

### **BITM, Kolkata**

BITM has set up a special toilet suitable for use by people with disabilities. The facility was thrown open to public in presence of officials from Indian Institute of Cerebral Palsy on 5<sup>th</sup> April, 2018.

### **DSC, Purulia**

Dinosaur Park & 3D Film “Alien Adventure” were inaugurated on 24<sup>th</sup> April, 2018 at DSC, Purulia. Prof. Dipak Ranjan Mandal, Vice Chancellor, Sidho-Kanho-Birsha University, Purulia inaugurated.

### **SSC, Patna**

‘Science on a Sphere’ show was inaugurated at SSC, Patna on 9<sup>th</sup> April, 2018 by Shri Nitish Kumar, Chief Minister, Bihar in the presence of Prof. Rash Bihari Pd. Singh, Vice- Chancellor, Patna University.

Children’s Gallery was inaugurated at SSC, Patna on 28<sup>th</sup> November, 2019.

### **RSC, Bhubaneswar**

Innovation Hub, Mirror Magic Gallery, Park exhibits ‘Giant Magic Water Tap’ and ‘Pebble Art’ were inaugurated at RSC, Bhubaneswar by Hon’ble Governor of Odisha, Prof. Ganeshi Lal in presence of Prof. Ratnam V. Raja Kumar, Director, IIT, Bhubaneswar and Prof. Akshaya Kumar, Director, Institute of Mathematics, Bhubaneswar on 11<sup>th</sup> July, 2018.

### **NBSC, Siliguri**

NBSC, Siliguri renovated and re-inaugurated the ‘Nature Interpretation’ Gallery on 23<sup>rd</sup> May 2018. Shri Prem Kumar Bardewa, Additional Executive Officer, Siliguri Mahakuma Parishad inaugurated.

3D Film “Great Wall of China” was inaugurated on 7<sup>th</sup> September, 2018 by Shri Malay K. Karanjai, Principal, GyanJyoti College, Siliguri at NBSC.

### **Dhenkanal Science Centre**

DSC, Dhenkanal inaugurated a gallery on ‘Life Science’ on 5<sup>th</sup> June, 2018. The gallery was inaugurated by Shri Avnikant Pattanaik, Additional DM, Dhenkanal.

### **Digha Science Centre**

Innovation Hub was inaugurated at Digha Science Centre on 26<sup>th</sup> February, 2019 by Shri Suvendu Adhikari, Minister of Transport & Environment, Govt. of West Bengal.

## **INAUGURATION OF EXHIBITIONS**

### **Understanding the Universe**

\* NBSC inaugurated a new Travelling Exhibition – Understanding the Universe by Prof. B. C. Paul, Dean of Science, University of North Bengal on 18<sup>th</sup> May, 2018.

\* Travelling Exhibition “Understanding the Universe” was inaugurated at Digha Science Centre By Dr. Debiprosad Duari, Director, Research & Academic, M.P. Birla Institute of Fundamental Science, Kolkata on 13<sup>th</sup> March, 2019. Dr. Duari also spoke on “A New view of the Solar System”. 120 students took part.

### ***Inauguration of Exhibitions (contd.)***

\* The Exhibition titled 'Understanding the Universe' was inaugurated at Bardhaman Science Centre on 6<sup>th</sup> December, 2018 by Dr. Nabakumar Mondal, Dept. Burdwan University.

#### **"4 years of NDA Government"**

The Directorate of Advertising and Visual Publicity (DAVP), Ministry of IB, Govt. of India's Kolkata office organized an exhibition on various schemes launched by the Union Government, namely, "4 years of NDA Government" from 13<sup>th</sup> to 16<sup>th</sup>, August, 2018. Smt. Rupa Ganguly, MP, Rajiya Sabha inaugurated.

#### **"Gandhi & Science" and "Maths and Computational thinking"**

BITM inaugurated two exhibitions on "Gandhi & Science" and "Maths and Computational thinking", on 27<sup>th</sup> February, 2019 in the presence of Shri Chandan Atreya from Australian High Commission, New Delhi and Dr. Stuart Kohlhagen from The National Science and Technology Centre, Australia.

#### **'The wonderful world of Crystallography'**

The Travelling Exhibition 'The wonderful world of Crystallography' was inaugurated at Bardhaman Science Centre on 20<sup>th</sup> March, 2019.

#### **'Pulses: our Future Food'**

A travelling exhibition on 'Pulses: our Future Food' was displayed at SSC Patna from 28<sup>th</sup> February, on the occasion of National Science Day for one month.

### **PARTICIPATION IN MEGA EXHIBITIONS**

\* RSC, Bhubaneswar participated in the 12th Foundation Day of IIT, Bhubaneswar with a Mobile Science Exhibition on 12<sup>th</sup> February, 2019.

\* BITM participated with an MSE on 'Heat & Temperature' and a Science Show at Konnagar Book Fair & Flower Exhibition from 8<sup>th</sup> to 13<sup>th</sup> December, 2018.

\* BITM participated with an MSE on 'Mathematics' and a Science Show at Kardah Utsav at Dangapara Viveknanda Stadium, Kardah from 13<sup>th</sup> to 16<sup>th</sup> December, 2018.

\* BITM participated with an MSE on 'Heat & Temperature' at an 'Environment Awareness Fair' organized by Madhyamgram Municipality from 22<sup>nd</sup> to 26<sup>th</sup> December, 2018.

\* BITM participated with MSE Exhibition on "Digital India" in the Acharya Satyendranath Basu Smara kBijnan-o-Prajakti Mela organised by Paschim Banga Bijnan Mancha (North-East centre) at Hedua Park, Kolkata from 17<sup>th</sup> to 20<sup>th</sup> January, 2019.

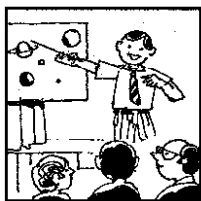
\* BITM participated in a Fair at Bishnupur High School, Nadia from 20<sup>th</sup> to 26<sup>th</sup> January, 2019 with MSE unit "Heat & Temperature" organised by "Jagarani".

\* BITM participated with Mobile Science Exhibition on 'Heat & Temperature' in Krishi Mela, Gholra, Baruipur, 24 Parganas (South) from 1<sup>st</sup> to 5<sup>th</sup> February, 2019.

\* District Science Centre, Purulia in collaboration with SharbaSiksha Mission, Purulia organized a Science Quiz and Science Demonstration along with Mobile Science Exhibition at Rabindrabhan, Purulia on 14<sup>th</sup> August 2018. Approximately 2000 students participated.

### **Participation in Fairs**

- \* BITM participated with a Fun Science demonstration at Basirhat High School, 24 Parganas (North) on its Golden Jubilee celebration on 23<sup>rd</sup> January, 2019. Visitors – 1500 nos.
- \* BITM took part in Jnan & Bijnan Mela 2018 organized by Rastriya Madhyamik Shiksha Mission on 23<sup>rd</sup> & 24<sup>th</sup> August, 2018 at Howrah Vivekananda Institution with Science & Film Show. Visitors – 4,000.
- \* District Science Centre, Purulia organized Mobile Science Exhibition with science demonstration and Astronomy Workshop during Celebration of Golden Jubilee of Bhadutala High School, Purba Midnapur from 10<sup>th</sup> to 13<sup>th</sup> January, 2019.



### **Special Events**

- \* BITM in collaboration with Rotary Club of Calcutta South West organized an Innovation Festival on 9<sup>th</sup> June, 2018. 68 school students with 19 models and 47 college students with 12 models participated. 256 visitors enjoyed.
- \* 71 models were displayed in the Innovation Festival organized by Bardhaman Science Centre on 25<sup>th</sup> and 26<sup>th</sup> February, 2019. Dr. Avijit Mitra, Principal, University Institute of Technology, Burdwan inaugurated. 4 institutions and Innovation Hub members of Bardhaman Science Centre took part.
- \* A Science and Innovation Festival was inaugurated at NBSC Siliguri on 29<sup>th</sup> January, 2019. Prof. Tapas Sarkar, Sabhadhipati, Siliguri Mahakuma Parishad inaugurated. There were Science Models Making Competition and Exhibition of Innovative Models by Grass root Innovators. 65 models from 25 schools & colleges participated. Dr. Manas Pratim Das, Fellow, West Bengal Academy of Science & Technology delivered a Popular Lecture on Black Hole: Enduring Enigma.
- \* Innovation Festival was organized at Shrikrishna Science Centre Patna on 30<sup>th</sup> and 31<sup>st</sup> January, 2019. Prof. Pushpak Bhattacharya, Director, IIT Patna. Inaugurated. Dr. Neeraj Priyadarshi, Sr. Scientist of ISRO delivered a popular lecture on the topic “Work of ISRO to reach common man”. 92 projects were on display out of which 13 were from grass root innovators. 8500 students and general public visited.
- \* BITM organised a workshop on “Maths and Computational Thinking” from 19<sup>th</sup> to 23<sup>rd</sup> February, 2019 in collaboration with The Australian High Commission in India, New Delhi. The sessions were conducted by Dr. Stuart Kohlhagen, Senior Fellow, Science & Learning, Questacon – The National Science and Technology Centre, Australia. 25 participants, including officials from different unit of NCSM and teachers from 6 schools of Kolkata took part.
- \* Bardhaman Science Centre organized a Seminar on ‘Lower Gondwana; Coal Forming Vegetation in India,’ on 11<sup>th</sup> May, 2018.
- \* A workshop on Water Testing, Lecture on Sanitation & Optimum use of water by Dr. Binay Kumar, Dept. of Chemistry, Patna University was organized on 24<sup>th</sup> October, 2018 at SSC, Patna. 80 students attended.

### ***Special Event Contd.***

\* District Science Centre, Purulia organized a Science Festival 2019 from 29<sup>th</sup> to 31<sup>st</sup> January 2019. Vice Chancellor, Sidho Kanoo Birsha University inaugurated. Painting competition, Open House Quiz and cultural events was also arranged. 111 school students took part with 95 model. 20,000 students visited.

\* Digha Science Centre organized a workshop cum Hobby Camp on “Basics of Astronomy” on 13<sup>th</sup> and 14<sup>th</sup> March, 2019. Students made astronomical kits like Sun Dial, Star Clock, World Clock, Moon Dial, Zodiacal Constellation and Astrolabe. 28 students took part.

\* Science Film Festival 2018 was organized at DSC, Purulia from 8<sup>th</sup> – 12<sup>th</sup> October, 2018. Award winning films of 8<sup>th</sup> NSFF was screened. 8 shows were organized. About 960 visitors attended.

### **CELEBRATION OF 150<sup>TH</sup> BIRTH ANNIVERSARY OF MAHATMA GANDHI**

#### **National Level Quiz on ‘Gandhi-Life & Works’**

BITM, organized the Semi Final of the National Level Quiz on ‘Gandhi-Life & Works’ at BITM on 29<sup>th</sup> January, 2019. Shri Jawhar Sircar, Former Secretary, Ministry of Culture, Govt. of India inaugurated the event in presence of Shri Pratik Ghosh, Director cum Secretary, Gandhi Smarak Sangrahaloy, Barrackpore. 22 teams participated. 5 teams competed in the final at Science City on 30<sup>th</sup> January, 2019.

#### **Exhibition “Gandhi & Science”**

BITM inaugurated an exhibition on “Gandhi & Science” on 27<sup>th</sup> February, 2019.

#### **Lecture & Workshop**

\* Bardhaman Science Centre celebrated 150<sup>th</sup> Birth anniversary of Mahatma Gandhi on 28<sup>th</sup> October with a Lecture by Dr. Khagendranath Chattopaddhyay, Burdwan University on ‘Gandhi’s views on Science and Technologies’. Two Workshops on ‘Gandhiji’s Innovation’ were also organized on 17<sup>th</sup> and 18<sup>th</sup> November 2018.

\* A workshop on ‘Kabad Se Jugad’ was organized at Innovation Hub of NBSC on 23<sup>rd</sup> March, 2019 on the 150<sup>th</sup> Birth Anniversary of Mahatma Gandhi. Students make useful products from waste materials.

#### **Centre Level Quiz on ‘Gandhi-Life & Works’**

\* BITM organized Science Centre Level Quiz on ‘Gandhi-Life & Works’ on 28<sup>th</sup> November, 2018. 22 students from 11 schools participated.

\* Dhenkanal Science Centre conducted Centre Level Quiz on Gandhi – Life and Works on 28<sup>th</sup> November, 2018. 10 teams participated.

Digha Science Centre organized Centre Level Quiz competition on Gandhi – Life & Work on 28<sup>th</sup> November, 2018. 14 students took part.

\* RSC, Bhubaneswar celebrated 150 Years of Mahatma Gandhi by organizing a Centre Level Quiz on ‘Life & Works of Gandhi’ on 10<sup>th</sup> December 2018.

## **INNOVATION HUB ACTIVITY**

### **BITM Kolkata**

Some of the projects done at Innovation Hub, BITM during FY 2018-19 were:-

Automatic Driver Assistance System, Budget friendly healthy mayonnaise for all, 3. Biodiesel Production Using Immobilized Lipase Biocatalyst, Automatic Long, Descriptive Answer Checker using Data Mining Techniques, Automatic number plate identification and smart car entry system for main gate, Finding Embedded Transcription Factors in DNA using Gibbs Sampling, Low cost water purification system

Achievements of members:

1. 'Immobilizing Lipase catalyst for Biofuel Production: A Potential Path to a Greener Tomorrow', by Tirthankar Sen was published in International Journal of Applied Engineering Research., January 2019
2. Patent granted for patent no 309871 titled 'Food Preserver' by Satyakam Saha on 25<sup>th</sup> March 2019.
3. Publication of patent no 201831002975 titled 'Automatic Waste Segregation' by Advaita Saha in Indian Patent Journal dated 7<sup>th</sup> December, 2018.
4. Filing of patent no 201831014672 titled 'Blood Group Mismatch Detector' by Arpoitri Ghosal on 18<sup>th</sup> April 2018.
5. Shri Sudipto Saha, Curator, BITM presented a paper on 'Science Communication: Theory, Practice and Innovation' in the 18th Indian Science Communication Congress 2018, NISCAIR.
6. Smt. Suchismita Majumdar, Mentor, Innovation Hub, BITM presented a paper on 'Imparting Classless knowledge' at the 9th National Science Teachers Congress, Ahmedabad

### **Bardhaman Science Centre**

Bardhaman Science Centre organized a Robotics Workshop on 27<sup>th</sup> and 28<sup>th</sup> September 2018 in which 47 students from 4 Institutions participated.

\* Bardhaman Science Centre celebrated 150<sup>th</sup> Birth anniversary of Mahatma Gandhi with two Workshops on 'Grass Root Innovation on Gandhiji's Innovation' were also organized on 17<sup>th</sup> and 18<sup>th</sup> November 2018.

\* The Innovation Hub of Bardhaman Science Centre organized a workshop on 'Drinking Water Quality Testing' on 24<sup>th</sup> and 25<sup>th</sup> August 2018 in which 98 member students participated from 6 Institutions.

\* Bardhaman Science Centre organized a Sensitization Programme in Innovation Hub on 28<sup>th</sup> April, 2018. 87 selected students from 10 College & school participated.

### **NBSC, Siliguri**

A Workshop on Robotics was organized at Innovation Hub of NBSC from 23<sup>rd</sup> to 25<sup>th</sup> January, 2019 under the guidance of the experts from Technomate Edubotics (OPC) Pvt. Ltd. 63 member-students from 10 schools participated.

\* A workshop on the topic 'Kabad Se Jugad' was organized at Innovation Hub of North Bengal Science Centre on 23<sup>rd</sup> March, 2019 on the occasion of the 150th Birth Anniversary of Mahatma Gandhi. Students were engaged in making useful products from waste materials.

### **SSC, Patna**

\* On 7<sup>th</sup> October 2018 a 'Meet with Scientist' programme was organized for the students of Innovation Hub of SSC Patna. Dr. Aravind Kumar Gupta, Eminent Inventor & Science Communicator interacted with the students and conducted a demo class for making 50 different projects. 100 students attended.

### **BITM Biotech Lab**

25 Individual members are currently engaged in 14 projects. One of the members Ahana Roy, presented her project "Mayonnaise" in West Bengal State Science and Technology congress-2019 and secured second position.



### **Collaborative Programmes**

#### **BITM, Kolkata**

\* BITM & ISEC, Kolkata, jointly organized two lectures, namely, "Curiosity in Creativity" and "Snake, Snakebite and its management" on 7<sup>th</sup> July, 2018.

\* BITM celebrated 20th Niroprova Memorial Lecture and Poster Drawing Competition in collaboration with Royal Society of Chemistry, Eastern India Section on November 30, 2018. The topic was 'Light & Life' and Lecturer was Dr. Saswati Lahiri, Former Professor, IACS, Kolkata.

\* BITM organised West Bengal Students' Science Seminar – 2018 on 'Industrial Revolution (IR) 4.0 : Are We Prepared?' on 6<sup>th</sup> September, 2018 in collaboration with Dept. of Youth Services and Sports, Govt. of West Bengal.

\* Kolkata District Science Fair 2018, jointly organized by BITM and Dept. of Youth Services and Sports, Govt. of West Bengal on 13<sup>th</sup> and 14<sup>th</sup> September, 2018 at BITM. 104 students and 52 guide teachers with 52 models / Projects representing 46 schools and 6 colleges participated.

\* BITM and Dept. of Youth Services and Sports, Govt. of West Bengal West Bengal Student Youth Science Fair 2019 at Netaji Inddor Stadium from on 30<sup>th</sup> and 31<sup>st</sup> January, 2019

\* BITM and American Center, Kolkata organized a Popular lecture on "From Sand, Dirt and Sticky Stuff to the Frontiers of Physics" by Professor. Surajit Sen, State University of New York on 26<sup>th</sup> June, 2018.

\* BITM organized a Popular Lecture by Dr. Jenna Jambeck, College of Engineering, University of Georgia on "Plastic Waste Inputs from Land into the Ocean : Can we come together to solve this global problem?", in collaboration with American centre, Kolkata, on 13<sup>th</sup> September, 2018.

\* Mr. Terry Watkins, TWResearch, UK and Ms. Lizzy Moriarty, London Science Museum, UK interacted with students on 6<sup>th</sup> April, 2018 at BITM on 'Nature of Anti-biotic, their usage and their side effects'. Programme was held in collaboration with British Council, Kolkata

\* BITM and Consulate General of The People's Republic of China in Kolkata organized a workshop on Paper Cutting on 12<sup>th</sup> June 2018. Mr. Wang Zhongde, Director of Chinese Folk Litera-



### ***Collaborative Programme***

ture and Art Association, Mr. Wang Xinmu, Director and Ms. Yang Qihui, Executive Director of Yunnan Chinese Culture Promotion Society conducted. 135 students and teachers from 15 schools attended.

\* BITM observed Earth Day on 23<sup>rd</sup> April, 2018 by organizing a Painting Competition on 'Pollution due to plastic', Film Show 'Kolkata 2070', Popular Lecture by Dr. Punarbasu Chaudhuri, University of Calcutta on 'Role of polythene as a cause of pollution' and Open House Quiz on 'Earth & Environment'. 524 students from 15 schools participated. The event was organized in collaboration with Earth Day Network and German Consulate, Kolkata.

\* BITM organised a workshop on "Maths and Computational Thinking" from 19<sup>th</sup> to 23<sup>rd</sup> February, 2019 in collaboration with The Australian High Commission in India, New Delhi. The sessions were conducted by Dr. Stuart Kohlhagen, Senior Fellow, Science & Learning, Qwestacon – The National Science and Technology Centre, Australia. 25 teachers from 6 schools took part.

\* BITM, Kolkata in collaboration with Turning Point, an NGO organized Film Show, Poster competition, Mental Health Quiz, Drama competition, Cultural Programme, Music and Recitation competition on 12<sup>th</sup> and 13<sup>th</sup> January, 2019 for the mentally challenged students.

#### **Learning with Moving Images**

BITM and Bichitra Pathshala organized a programme "Learning with Moving Images" on 29<sup>th</sup> July, 2017. 23 presentations on diverse topics were designed and presented. Certificates and mementos were awarded by Prof. Anupam Basu, IIT, Kharagpur.

#### **RSC Bhubaneswar**

- MSE Programme jointly organized with TE&SCERT, Odisha, from 23.7.2018 to 19.12.2018 in 34 sites in the district of Gajapati, Dhenkanal, Deogarh & Kalahandi.
- State Science Drama Competition was organized with TE&SCERT, Odisha, on 8<sup>th</sup> August 2018.
- State Level Science Seminar was organized with TE&SCERT, Odisha on 28.9.2018
- State Level Science Quiz was organized with TE&SCERT, Odisha on 28 & 29.11.2018
- State Level Sishu Mahotsava (SURAVI) was organized with Odisha Primary Education Programme Authority, (OPEPA) Bhubaneswar from 14<sup>th</sup> to 16<sup>th</sup> November, 2018
- World Health Day in collaboration with Orissa Environmental Society on the theme 'Universal Health Coverage : Every one every where' on 7.4.2018
- Science Workshop & Science Film for differently abled students organized with Swabhiman, reputed NGO, Bhubaneswar from 15 to 17.11.2018 where in 80 students participated.
- 64<sup>th</sup> State Level Vana Mahotsava was organized with Nandankanan Biological Park, Bhubaneswar on 28.6.2018
- Kit Making workshop organized with Digvijay College, Chhattisgarh for two days on 13 & 14 December, 2018 wherein 20 teachers and two teachers participated.
- Screening of Award Winning Science Films organized with Vigyan Prasar from 10<sup>th</sup> to 17<sup>th</sup> November 2018
- Two Teachers Training Programme was organized with DAV Public School Management, Odisha on 15.2.2019 where in 90 teachers participated.

## ***Collaborative Programme***

### **District Science Centre, Purulia**

DSC, Purulia participated in Science Fair organized by District Youth Department, Purulia on 16th and 17th September 2018. 800 students, teachers and general public attended.

### **Shrikrishna Science Centre, Patna**

Teachers' Orientation programme was organized on 28th July 2018 in collaboration with Science for Society, Bihar Patna.

### **Bardhaman Science Centre**

\* Bardhaman Science Centre with support from the Office of the DM, Burdwan organized Mobile Science Exhibitions under Rastriyo Abiskar Mission Programme from 11<sup>th</sup> June 2018 onwards. 15 schools were covered.

\* Bardhaman Science Centre in association with District Youth Office, Purba Burdwan organized the Purba Burdwan District Level Science Fair-2018 from 12<sup>th</sup> to 13<sup>th</sup> September 2018. 260 participants from 130 Institutions participated.

### **Participation in Korea Science Creativity Festival [KSCF]**

Shri Kanishka Chakraborty, Education Officer, BITM participated with 15 experiments based on Physics, Chemistry and Biology in the Korea Science Creativity Festival [KSCF], Kintex, Ilsan, Republic of Korea from 9<sup>th</sup> to 12<sup>th</sup>, August 2018. The event was organized by Korea Foundation for Advancement of Science & Creativity [KOFAC]. 5000 visitors enjoyed the experiments.

## **HONOURS AND AWARDS**

Shri V. S. Ramachandran, Director BITM received Prof. C. V. Raman Award instituted by Science Association of Bengal for his science popularisation initiative through BITM on 28<sup>th</sup> February, 2018

### **Swachhta Pakhwada**

#### **BITM, Kolkata**

\* Cultural Programme on 'Swaccha Bharat' was performed by Regional Outreach Bureau (Song & Drama Division), Ministry of Information Broadcasting, Govt. of India on 16<sup>th</sup> April, 2018 on the occasion of the inauguration of Swachhta Pakhwada at BITM.

\* BITM observed Swachhta Pakhwada from 17<sup>th</sup> to 30<sup>th</sup> September, 2018 with Puppet Show, Dance & Drama performance on "Swachh Bharat" in collaboration with ROB, Ministry of IB, Govt. of India, taking Swachhta Pledge, Special Cleaning Drive inside office premises, Painting of Museum Building and Free Health Check Up Camp by Rabindranath Tagore International Institute of Cardiac Sciences, Kolkata.

#### **Bardhaman Science Centre**

Bardhaman Science Centre observed Swachhata Pakhwada from 16<sup>th</sup> to 30<sup>th</sup> September, 2018 with activities such as, Mass Swachhata Pledge, Quiz Contest, Special Cleaning Drive, Popular Lecture and Awareness lecture on use plastic.

## **Swachhta Pakhwada**

### **DSC, Purulia**

\* Swachhta Pakhwada was observed at DSC, Purulia from 16<sup>th</sup> to 30<sup>th</sup> April, 2018 and again from 16 to 30, September 2018 through events like Sit & Draw, Open House Quiz, Popular Lecture Mass Swachhta Pledge, Sit & Draw, Cleanliness camp by NCC student, Drama on Swachh Bharat, Cleanliness of Premises by "Shramdan" of staff-members, Signature campaign etc. 2000 students, teachers participated.

### **North Bengal Science Centre, Siliguri**

A fortnight-long Special Cleanliness Drive was undertaken by North Bengal Science Centre, Siliguri as part of Swachhta Pakhwada from 16<sup>th</sup> to 30<sup>th</sup> September, 2018 along with Taking of Swachhta Oath, Film Shows on Swachhta, Quiz, Painting Competition, Slogan Writing Competition. All staff members of NBSC joined in the Swachh Hi Sewa Campaign.

### **Shrikrishna Science Centre, Patna**

\* SSC, Patna organised various programmes and activities from 16<sup>th</sup> to 30<sup>th</sup> April, 2018 during Swachhta Pakhwada. Again, Painting competition, Open House Quiz and Lecture were organized on 24<sup>th</sup> September 2018 for school students. Dr. A.K. Ghosh, Chairman, Bihar Pollution Control Board delivered a Lecture on 'Global water crisis: Challenges and Remedies. 170 students from 10 schools participated.

### **RSC, Bhubaneswar**

Swachhata Pakhwada was observed at RSC, Bhubaneswar from 16<sup>th</sup> to 30<sup>th</sup> September, 2018. Pledge Taking; Cleaning of Science Park, Pathways and area of cycle stand; Distribution of Leaflets; Popular Lecture on 'Waste Management' and an Open House Quiz were organised.

### **Digha Science Centre**

Swachhata Pakhwada was organized at Digha Science Centre from 16<sup>th</sup> to 30<sup>th</sup> April, 2018 and from 14<sup>th</sup> to 28<sup>th</sup> September, 2018. Activities undertaken were Leaflet Distribution, Signature Campaign, Suggestion Writing by tourist, Cleaning programme inside the campus and sea shore, fixing of Swachhata Hoarding, Sit & Draw, Slogan Writing, Essay Writing, Workshop on 'Garbage Management' & Plastic Art From Waste, 'Potable Water Testing' and Extempore Talk for staff members. 237 school students attended.

### **Dhenkanal Science Centre**

Dhenkanal Science Centre celebrated Swachhta Pakhwada between 16<sup>th</sup> to 29<sup>th</sup> September, 2018 at Science Centre and Kapilas Science Park. The programmes organized were a Special Cleaning Drive, a Slogan Writing Competition, a Science Quiz, a Drawing Competition and an Essay Writing Competition. Students of Dhenkanal town and 5 schools of Kapilas Village participated.

### **RAJBHASHA RELATED ACTIVITIES**

\* Digha Science Centre organized a Hindi Workshop on 17<sup>th</sup> August, 2018. Dr. P. Mishra, an eminent Hindi teacher spoke on "Hindi as an official language in India". Hindi Pakhwada was organized at Digha Science Centre from 14<sup>th</sup> to 28<sup>th</sup> September, 2018 with various events like Hindi Essay Writing, Translation, Extempore Talk for BITM staff member.

\* Dhenkanal Science Centre celebrated Hindi Diwas on 14<sup>th</sup> September, 2018 by organizing Hindi Poem Recitation Competition. 6 Students participated.

### ***Rajbhasha Related Activities***

- \* Kapilas Science Park also celebrated Hindi Diwas by conducting Hindi Essay writing competition with 15 school students.
- \* Bardhaman Science Centre organized two workshop on 'Hindi' 22nd June 2018 and also on 20th August 2018 for 11 staffs of the centre. Also organized was a Hindi Week Festival for staff members from 14th to 21st September, 2018. Officials participated in Essay Writing Competition and Extempore Talk.
- \* Hindi Week was celebrated at NBSC from 08th to 14th September, 2018 with activities such as News Paper Reading Competition, Hindi Synonym-Antonym Writing, Hindi Translation, Hindi Poem Recitation for the staffs. A popular lecture on Water Borne and Vector Borne Diseases was delivered in Hindi by Shri Bipin Gupta, Teacher, Bharati Hindi Vidyalaya for students.
- \* District Science Centre Purulia observed Hindi day on 14th September, 2018 with a general discussion on 'Importance of Hindi day celebration', a Slogan Writing Completion and Quiz completion. 150 students took part.

### **INTERNATIONAL DAY OF YOGA**

- \* RSC, BBSR celebrated 4th International Yoga Day on 21st June, 2018 by organizing a Yoga Camp for its employees. Shri Kedarnath Padhi, Bharatiya Yoga Sansthan demonstrated Yoga Asanas for healthy life followed by Yoga Exercise.
- \* International Yoga Day was celebrated at SSC, Patna on 21st June 2018. A Yoga session and an Open House Quiz on Yoga was also conducted. 100 public attended.
- \* International Day of Yoga was celebrated at NBSC, Siliguri on 21st June, 2018 involving school students and staff members. A lecture on Yoga was delivered by Swami Jibananandaji Maharaj, Sri Ramkrishna Vivekananda Ashram, Jalpaiguri, a Lecture-cum-Demonstration session on Yoga and a film show on Yoga was also arranged.
- \* 4th International Day of Yoga was observed on 21st June 2018 at DSC, Purulia by organizing Awareness Rally on Yoga, Yoga Performance by school students & Lecture cum Demonstration on 'Benefits & Usefulness of Yoga' delivered by Shri Sudip Ghosh, an Yoga expert, Purulia. 350 students, teachers and guardians attended.
- \* Digha Science Centre observed International Yoga Day on 21st June, 2018 by conducting a Lecture by Sk. Abdul Rahim, President, Patanjali Yoga Samati, Egra, Discussion Session on 'Yoga as aid to Studies' and 'Yoga for Cure of Diseases' and Demonstration of Asanas. 110 students, teachers and staffs participated.
- \* Dhenkanal Science Centre observed the 4th International Day of Yoga on 21st June, 2018 with a Lecture on 'Yoga for Health', Yogasana Session and Quiz amongst students. Demonstration and Yogasana Practice session was also held at Kapilas Science Park.
- \* Bardhaman Science Centre observed 2nd International Day of Yoga on 21st June, 2018 through Meditation, Yoga Demonstration and Quiz on 'Yoga'. Staff members along with 213 participants from Burdwan Yoga Society participated.
- \* BITM celebrated 4th International Yoga Day on 21st June, 2018. Programmes organized were Asanas by experts from World Yoga Society and Lecture on 'Yoga - Union of Science and religion' by Brahmachari Achyutananda, Yogoda Satsang Society of India. 120 staff attended.

## **SCIENCE DRAMA**

\* BITM organized Inter School Kolkata District Science Drama Competition on 27<sup>th</sup> July, 2018. 18 school teams took part. West Bengal Science Drama Competition on 10<sup>th</sup> August 2018. 9 school teams from 6 districts of West Bengal took part and Eastern India Science Drama Competition on 24<sup>th</sup> August, 2018. 5 school teams from West Bengal, Bihar, Sikkim, Odisha and Jharkhand participated.

\* District Science Centre, Purulia, organized the District Level Science Drama Competition 2018 on 19<sup>th</sup> July, 2018. Nine school teams participated.

\* Bardhaman Science Centre has organized the District level Science Drama Competition on 26<sup>th</sup> July 2018 in which 10 school teams participated.

\* District Level Science Drama Contest was organized at Digha Science Centre on 3<sup>rd</sup> August, 2018. 8 school teams participated. 154 people witnessed. Dr. Srinivasan Balakrishnan, Officer-in-charge, Marine Aquarium and Research Centre, ZSI, Digha gave away the prizes.

\* North Bengal Science Centre Siliguri organized Science Drama Competition on July 25, 2018. Six schools participated.

## **COMMUNITY PROGRAMME**

### **Festival for Mentally Challenged students**

BITM, Kolkata in collaboration with Turning Point, an NGO organized Film Show, Poster competition, Mental Health Quiz, Drama competition, Cultural Programme, Music and Recitation competition on 12<sup>th</sup> and 13<sup>th</sup> January, 2019 for the mentally challenged students.

### **Workshop for Differently abled**

Regional Science Centre, Bhubaneswar in collaboration with Swabhiman, Bhubaneswar conducted a workshop for the differently abled children from 1<sup>st</sup> June to 3<sup>rd</sup> June 2018. 15 students participated.

### **Visit of Under-Privileged Children with free lunch and free science kits**

\* 9942 underprivileged students from Kolkata district visited BITM during November 2018 to March 2019. 2425 were also provided free transport.

\* 6578 underprivileged students visited Dhenkanal Science Centre from December 2018 to March 2019. Transportation was provided to 530 of them.

\* During April 2018 to March 2019, 6445 underprivileged children visited this Bardhaman Science Centre.

\* 3210 underprivileged student visited DSC, Purulia up to March 31<sup>st</sup>, 2019.

\* 6730 underprivileged student visited Digha Science Centre up to 31<sup>st</sup> March, 2019.

\* RSC Bhubaneswar had underprivileged student's footfall of 10,914 during 2018-19

\* SSC, Patna arranged visit for 7471 under privileged student during December 2018 to March 2019.

\* 6024 under privileged students visited the NBSC from December 2018 to March 2019.



## Science Park

Museum /Centre	Area	No. of Exhibits	Date of Inauguration
SSC, Patna	1 acre	46	1979
RSC, Bhubaneswar	5 Acre	36 prehistoric animals	2002
		21 Science Park exhibits	Re-inaugurated in 2010
DSC, Purulia	1 Acre	41	1977
Science Centre Bardhaman	3 Acre	46	1992
Digha Science Centre	1.7 Acre	30	1997
N.B.S.C. Siliguri	4.6 acres	29	1997
Science Centre Dhenkanal	4.25 Acres	34	1995
Science Park Kapilas	4.8 Acres	78	1995



## Mobile Science Exhibition

+ Museum- / Centre	Theme of the Exhibit	No. of Exhibition Sites	No. of Exhibition days	No. of Film Shows	No. of visitors in film shows	No. of visitors in exhibitions	Km. Travelled
BITM, Kolkata	Heat & Temperature and Mathematics	73	175	151	48,602	2,31,960	2,408
SSC, Patna	Popular Science	62	149	48	74,281	4,50,424	2,545
DSC, Purulia	Popular Science	48	96	51	44,479	1,37,599	1,837
RSC, Bhub	'Mathematics' & 'Electricity & Magnetism'	54	153	54	17,150	69,245	5,939
Bardh. Sc. Cent.	Fun Science	50	134	64	50,517	1,74,645	2,829
NBSC, Siliguri	Hands on Science	45	84	78	24,108	69,389	1,749
Dhen. Sc. Cent.	Popular Science	47	141	55	14,268	57,015	1,910



## Science Demonstration Lecture

Museum/Centre	No. of Lectures held in Museum	No. of Students in Museum	No. of Lectures held outside	No. of Student outside
<i>BITM, Kolkata</i>	54	4494	83	32247
<i>SSC, Patna</i>	114	-	-	-
<i>RSC, Bhubaneswar</i>	183	5856	58	12,885
<i>DSC, Purulia</i>	51	6885	55	28732
<i>Sc.Cent.Bardhaman</i>	62	12321	45	13179
<i>N.B.S.C. Siliguri</i>	52	2740	50	16015
<i>Sc.Cent.Dhenkanal</i>	42	14287	45	12080
<i>Digha Science Centre</i>	59	5578	-	-



## Exhibits Developed

	BITM, Cal	RSC, Bhub	SSC, Patna	SC, Bardh	DSC, Puru	NBS-C, Sili	DSC, Digha	SC, Dhen
<b>Gallery Exhibits</b>	45	-	20	-	-	4	-	2
<b>Duplicate Exhibits</b>	-	-	-	-	-	1	-	-
<b>Park Exhibits</b>	19	2	-	2	10	1	-	-
<b>MSE Exhibits</b>	-	8	-	-	-	-	-	-
<b>Kits/Aids</b>	-	-	-	-	-	4	-	-
<b>Duplicate Kits/Aids</b>	-	-	-	-	-	-	-	-
<b>Temporary Exhibition Exhibits</b>	-	-	-	-	-	-	-	-
<b>Total</b>	64	10	20	02	10	10	-	2

**Exhibit developed during 2018-19**

### BITM, KOLKATA

- |                       |                      |
|-----------------------|----------------------|
| 1. Drive Zone         | 6. Humanoid Robot    |
| 2. Balloon Burst      | 7. Virtual Motion    |
| 3. Augmented Reality  | 8. Virtual Reality   |
| 4. Interactive Table  | 9. Human Body System |
| 5. Gesture & Navigate | 10. Digital Canvas   |

### ***Exhibit developed during 2018-19***

#### **SRSC, Bargarh**

##### Gallery : Light, Reflections and Images

1. Play with Light – 3 exhibits (Rainbow, Colour Addition & Diffraction)
2. Optics Room – 4 exhibits (Reflection, Total Internal Reflection, Refraction and Optical Fibre)
3. Dine with Yourself
4. Deceptive Reality
5. Fun Mirror – 4 exhibits
6. 3D Lenticulars
7. Magnified Images
8. Infinity Train
9. Bhulbhulaiya

##### Gallery : Minerals

1. Minerals on Earth
2. Minerals in India
3. Minerals of Odisha
4. Mining
5. Rocks-I
6. Rocks-II
7. Minerals
8. Formation of Rocks & Minerals (TV)
9. Ores (With Specimen)
10. Crystals
11. Gemstones
12. Mineral Resources of Bargarh District

##### Gallery : Fun Science

1. Colour Shadow
2. Clap Tree
3. Coded Music
4. Praxinoscope
5. Distorted Square
6. Frozen Shadow
7. Conic Sections
8. Persistence of Vision
9. Identify the Object
10. How Steady You Are
11. Children's Section (Doll's House, Swing, See-saw, Ball Pool, Fairyland)
12. Pedal Blower
13. 3D Pictures
14. Elliptical Carom Board

##### Science Park Exhibits

1. Sun Dial
2. Simple Camera

3. Value of Pi
4. Seesaw is a Lever
5. Scientist' Bust
6. Giant Yo-Yo
7. Tug of War
8. Pulleys Lifts Load
9. Lever – 1<sup>st</sup> Class
10. Lever – 2<sup>nd</sup> Class
11. Lever – 3<sup>rd</sup> Class
12. Projective Geometry
13. Spider Web

##### Science Park : Dinosaur Enclave

1. Ankylosaurus
2. Stegosaurus
3. Brachiosaurus
4. Oviraptor
5. Scapidosaurus
6. T-Rex

#### **NBSC, Siliguri**

1. Spider Web ( SRSC Bargarh)
2. Cone Runs Uphill
3. High Hill Forests of North Bengal Dioram
4. Mahananda Wildlife Sanctuary Dioram
5. Gorumara National Park Diorama
6. Rasikbeel Wetland Diorama

#### **RSC, Bhubaneswar**

##### Park Exhibits

1. Symmetry I
  2. Giant Magic Water Tap
- ##### MSE Exhibits
1. Roman Arch





## Science Education

	<b>BITM, Calcutta</b>	<b>SSC, Patna</b>	<b>RSC, Bhub</b>	<b>DSC, Purulia</b>	<b>Sc. Cent. Bardh</b>	<b>NBSC, Siliguri</b>	<b>Sc. Cent. Dhen</b>	<b>Digha Sc. Cent</b>
<b>Digital Planetorium Shows</b>								
Shows held	-	1456	0	-	-	2333	-	2503
Visitors	-	49504	0	-	-	57,419	-	60883
<b>Popular Lecture</b>								
No. of Lectures	10	14	17	9	17	15	8	16
Audience	2285		1581	1088	3245	1610	960	1216
<b>Taramandal Show</b>								
No. of Shows	737	-	521	756	561	564	502	68
Audience	8097	-	5536	11991	5876	11,851	4910	855
<b>Science Quiz</b>								
Contests	53	80	53	65	72	59	70	48
Participants	1195	810	5131	4218	96	2520	700	106
Visitors	1880	3865	0	6312	2046	640	1400	1157
<b>Sky Observation</b>								
No. of Prog. held	55	50	82	51	70	51	51	49
Visitors	3159	3365	1232	2204	1076	3226	539	647

**Popular Lecture at RSC, Bhubaneswar**

7.4.2018	Dr. Nitish Kumar Mohanty Super Specialist Nephrology Apollo Hospital , BBSR	Universal Health Coverage: Every one every where
21.6.2018	Shri Kedarnath Padhi and his team, Bharatiya Yoga Sansthan, Bhubaneswar	Benefits of different Yoga Asanas for healthy life
9.8.2018	Prof. S K Badamali, Reader in Chemistry, Utkal University, Bhubaneswar	'Concept of Mole'.
13.8.2018	Dr. Subhendu Pattanaik, Dy. Director, Pathani Samanta Planetarium, Bhubaneswar	Rocket Science
15.9.2018	Dr S K Badmali Lecturer in Physics Utkal University	Life & Works of Sir Mokshagundam Visvesvaraya
20.9.2018	Mr. V Prakash, Active Member of Eco Club, Bhubaneswar.	'Waste Management'
4.10.2018	Shri K L Purohit, Dy Director, Nandankanan, Govt. of Odisha	'Wild Life Care'
7.10.2018	Dr. Subhanjoy Mohanty Professor Earth & Planetary Science NISER, BBSR	Bohr's Atom Concept'
30.10.2018	Mr. Subash Chandra Praharaj TGT, Vivekananda Shiksha Kendra Unit-IV, BBSR	Life & Works of Homi Jahangir Bhabha
31.10.2018	Dr R K Mohanta Renowned Historian Utkal University, BBSR	Life & Works of Sardar Vallabhbhai Patel
10.11.2018	Dr. Rooplekha Khuntia, Asst. Prof. NISER, BBSR	'Science : A Human Right'
12.11.2018	Dr. V.Badireenath Konkimalla, NISER, BBSR	'Marine Diversity'
13.11.2018	Dr. Saurabh Chawla, Veterinary Doctor, NISER	'Man and Animals inter-relation and coexistence'
30.11.2018	Dr. Shyamasree Basu, Scientific Officer 'F' NISER, Bhubaneswar	Life & Works of J C Bose.
17.12.2018	Dr. Yogesh Ganpat Bhumka, Associate Professor IIT, Bhubaneswar	'Aeronautics, concepts of flying and aerodynamics'
22.12.2018	Dr Brundaban Sahu, Faculty- Dept. of Mathematics, NISER, Bhubaneswar	'Ramanujan & Mathematics'
28.2.2019	Dr. Chandan Goswamy, Associate Professor, School of Biological Science, NISER, Bhubaneswar	'Bioinformatics and its research opportunities and applications in various fields'

**Popular Lecture at SSC, Patna**

21.4.2018	Dr Ashok Kr. Ghosh, Chairman, Bihar State Pollution Control Board, Patna	End Plastic pollution
11.5.2018	Dr Rakesh Kr. Singh, Aryabhat Knowledge University, Patna	Nano Science & Tech For the development of Bihar
05.6.2018	Shri Nand Kishor District Forest Officer, Patna	Beat the plastic
31.6.2018	Dr Neeraj Priyadarshi Senior Scientist, ISRO	Work of ISRO to reach Common man
20.7.2018	Dr Naveen Kr Nischal Prof. Dept. of Physics, IIT Patna	Tools & Kits for Space Exploration
09.8.2018	Dr Shakeel, General Secretary Indian Doctors of Peace & Development, Patna	No more Hiroshima No more Nagasaki

**Popular Lecture at SSC, Patna**

24.9.2018	Dr. A.K. Ghosh Chairman, BSPCB, Patna	Global water crisis; Challenges & remedies
07.10.2018	Dr Arvind Gupta Eminent Inventor & Science Communicator	How we can make science projects
24.10.2018	Dr Binay Kumar, Micro Analyst, Dept. of Chemistry, P. University	Sanitation & optimum use of water
09.11.2018	Shri Ram Swaroop, Curator, SSC Patna	Health & Hygiene
10.11.2018	- do -	Biodiversity
19.11.2018	- do -	Community, Hygiene & public health : Imperative & challenges
24.11.2018	Mrs Smita Pallavi, Prof., Dept. of Computer, BIT Mesra	Women's role in Nation building
28.2.2019	Prof. Shriram Padamdeo, Dept. of Botany, Sc. College, Patna	Importance of Science & Technology in daily life

**Popular Lecture at NBSC, Siliguri**

20.04.2018	Dr. Ranadhir Chakraborty Professor, Dept. of Biotechnology University of North Bengal	Creativity, Invention & Innovation
23.04.2018	Dr. Sushma Rohatgi, Professor, Dept. of Geography & Applied Geography, University of North Bengal	Mapping the Earth Environment through Remote Sensing
05.06.2018	Shri. D. Chatterjee, Project Coordinator, NBSC, Siliguri	Prevent Plastic Pollution
21.06.2018	Shri. Surajit Lahiri, Yoga Expert, Siliguri	Health Benefits of Practicing Yoga
05.09.2018	Dr. R.K.Samanta Professor ( Retd.), Department of Computer Science & Application	Cyber Space and Cyber Security: Issues and Challenges
14.09.2018	Shri. Bipin Gupta, Assistant Teacher, Bharati Hindi Vidyalaya, Siliguri	Water Borne and Vector Borne Diseases
31.10.2018	Prof. Bijoy Kumar Sarkar Director A.K. Maitreya Heritage Museum NBU, Siliguri	Sardar Vallabhbhai Patel & Freedom Movement of India
10.11.2018	Dr. Abhijit Roy Professor ( Retd.) Department of Chemistry University of North Bengal	Discover Water: Role of Clean Water in Our Life
19.11.2018	Dr. Raghunath Ghosh Professor (Retd.) Department of Philosophy NBU, Siliguri	National Integration
20.11.2018	Dr. Samsul Alam, Headmaster Murali Gunj High School (H.S.)	Communal Harmony: Role of Student Community
24.11.2018	Dr. Vidyawati Agarwal, Associate Professor, Department of Political Science Siliguri College, Siliguri	Great Indian Women
28.11.2018	Shri. Biplab Ray, Teacher (Red.) Nand Prasad..H.S. School, Naxalbari	Environment Conservation & Biodiversity
22.12.2018	Shri. Rathin Paul, Secretary, Raj Kishor Bose Mathematical Society, Siliguri	Mathematical Calculations on Finger Tips
31.01.2019	Dr. Manas Pratim Das, Fellow, West Bengal Academy of Science & Technology	Black Hole: Enduring Enigma
28.02.2019	Dr. S.S. Agarwal, Principal, Siliguri Model High School, Siliguri	Use of Modern Technology in Oro- Dental Hygiene

### **Popular Lecture at Digha Science Centre**

02.05.2018	Shri Palash Chaterjee, Guest Faculty, M.P. Birla Institute of Fundamental Research, Kolkata	Our Solar System
21.06.2018	Sk. Abdul Rahim, President, Patanjali Yoga Samati, Egra	International Yoga Day Celebration"
20.07.2018	Shri Ratan Kumar Chakrabourty, Ex-education Officer, BITM	The Apollo Mission and First Moon Landing by Men
17.08.2018	Dr. I. Mishra, eminent Hindi Teacher	Hindi as an official language in India
01.10.2018	Shri Samya Basu, Ex-Education Officer, WWF, India	Human & Elephant Interaction
10.11.2018	Prof. (Dr.) Parthasarathi Mujumder, Senior Professor, Ramkrishna Mission Vivekananda Education and Research Institute, Belur Math, Howrah	Science & Technology
14.12.2018	Prof. (Dr.) Parthasarathi Mujumder, Senior Professor, Ramkrishna Mission Vivekananda Education and Research Institute, Belur Math, Howrah	"Conservation of Energy and use of renewable sources "
04.02.2019	Dr. Sankar Kumar Nath, Ex-oncologist, R.G. Kar Medical College, Kolkata	Food & Cancer
04.02.2019	Dr. Sukanta Mukherjee, Senior Oncologist, Onlalink, Moulali, Kolkata.	Role of Micronutrient on Food and Nitration
14.02.2019	Dr. Surajit Das, H.O.D, Dept. of Zoology, Kabi Nazrul College, Muraral, Birbhum	Mosquito borne diseases, Malaria, Filariasis, Dengue in Human body
14.02.2019	Dr. Debadin Bose, Assistant Professor, Dept. of Botany, Kabi Nazrul College, Muraral, Birbhum	Bioinformatics
28.02.2019	Shri Binoy Bhusan Das, Determent of Physics, Ramnagar College, Ramnagar, Purba Medinipur	National Science Day : Raman & Galileo's Life
13.03.2019	Dr. Debiprosad Duari, Director, Research & Academic, M.P. Birla Institute of Fundamental Science, Kolkata	A New view of the Solar System
22.03.2019	Shri Debojyaoti Panda, Teacher of Physics, Aniruddha High School, Ramnagar	Water Crisis of India- Past, Present & Future

### **Popular Lecture at District Science Centre, Purulia**

18.04.2018	Dr. Nachiketa Bandhyopadhyay, Registrar, S-K-B University, Purulia.	Heritage & Tourism
22.04.2018	Shri Ritabrata Biswas, PC, DSC, Purulia	Plastic on Environment
05.06.2018	Shri Ritabrata Biswas, PC, DSC, Purulia	Nipah virus - an Introduction
21.06.2018	Shri Sudip Ghosh, Yoga Instructor, Purulia	Benefits & Usefulness of Yoga
24.11.2018	Shri Dhrubajyoti Chattopadhyay, DSO, DSC, Purulia.	Unsung Indian Women Scientists
09.09.2018	Dr. Subrata Raha, HOD, Dept. of Botany, S-K-B University, Purulia.	Environmental Awareness Among Students
14.09.2018	Shri Dhrubajyoti Chattopadhyay, DSO, DSC, Purulia.	Life and Works of Kamala Sohinie: 1 <sup>st</sup> Women P.HD of India
28.02.2019	Shri Dhrubajyoti Chattopadhyay, DSO, DSC, Purulia.	Life and Works of Prof. C.V. Raman
28.02.2019	Shri Biswarup Das, Education Assistant, DSC, Purulia	Address in Universe : Space Exploration

**Popular Lecture at Bardhaman Science Centre**

22.04.2018	Dr. Nabakumar Mondal	Plastic Pollution
18.05.2018	Dr. Nirupama Goswamy	Museum of Botany
05.06.2018	Pradeep Bandyapadhyay,	Lets Talk about Plastic
11.07.2018	Shri A.K. Kalidaha, Sr. Scientific Officer, DST, Govt. of West Bengal	Population:Role of Human Being
13.08.2018	Dr. Partha Sarathi Mukherjee	Gift of Life
21.06.2018	Shri Jayanta Hore, Burdwan University	Yoga
16.09.2018	Shri A.K. Kalidaha, Sr. Scientific Officer	Role of Ozone layer
02.10.2018	Pradeep Bandyapadhyay	Conservation of Wild Life
03.10.2018	Shri Rajnarayan Das, Education Officer, Bardhaman Science Centre	Wild Life and Environment
04.10.2018	Shri Nikhiles Biswas, Education Officer, Bardhaman Science Centre	Biodiversity of India
28.10.2018	Dr. Khagendranath Mukherjee, BU	Gandhi's Views on Science
31.10.2018	Dr I.D. Mishraw, Teacher of Neheru Vidyamandir and Member of TOLIC	National Integrity
19.11.2017	Dr Shatinath Mondal, Deputy Director & Nodal Officer, Dep. Of Higher Education & Biotechnology, Govt. of WB	Intellectual Property Right
10.11.2019	Dr Anindya Bose, BU	Indian Radio Medication System
14.11.2018	Dr. Choudhury M Hossain	Antibiotic and its uses
09.01.2019	Shri Anurag Srivastava,DM, Purba Bardhaman	Innovation and Science & Technology
28.02.2019	Dr. Soumen Konar, HM, Krishnapur High School	Recent development in Chemical Technology and its outcomes

**Popular Lecture at Dhankanal Science Centre**

11.05.2018	Sh. N.B.Sahu, DSO, Dhenkanal Science Centre	Technology in our Daily Life
21.06.2018	Shri Kailash Chandra Rout, Khetra Pradhan, Bharatiya Yoga Sansthan Bhubaneswar	Yoga for Health
10.11.2018	Dr. Balabhadra Ram, Eminent Physician, Dhenkanal	Healthy Food, Healthy Life
28.02.2019	Sh. N.B.Sahu, DSO, Dhenkanal Science Centre	Science for People and People for science
22.04.2018	Sh. N.B.Sahu, DSO, Dhenkanal Science Centre	Global Warming
21.06.2018	Shri Kailash Chandra Rout, Khetra Pradhan, Bharatiya Yoga Sansthan Bhubaneswar	Yoga for all
16.09.2018	Shri. D. Bhoi, Forest Range Officer, Kapilas Range	Save Ozone to Save Earth
08.03.2019	Sh. N.B.Sahu, DSO, Dhenkanal Science Centre	Science for All

### **Popular Lecture at BITM, Kolkata**

1. 23.04.2018	Dr. Punarbasu Chaudhuri, University of Calcutta	Pollution due to Plastic
2. 21.06.2018	Achyutananda, Yogoda Satsang Society Ltd.	Yoga-Union of Science & Religion
3. 26.06.2018	Prof. Surajit Sen, State University of New York, Buffalo	From Sand, Dust & Sticky stuff to the frontiers of Physics
4. 13.09.2018	Dr. Jenne Jambeck, Associate Prof. College of Engineering, University of Georgia	Plastic waste input from land into the Ocean: Can we come together to solve this Global problem
5. 10.11.2018	Shri. Pathik Guha, Journalist, ABP Ltd.,	Science: A Human Right
6. 30.11.2018	Prof. Saswati Lahiri, Former Prof. IACS, Kolkata	And then there was Light
7. 08.01.2019	Prof. Bhupati Chackraborty	Science Popularization
8. 27.02.2019	Dr. Stuart Kohlhagen, Sr. Fellow Science & Learning, Questacon, Australia	Maths on Computation / thinking
9. 28.02.2019	Dr. Stuart Kohlhagen	Maths on Computation / thinking
10. 08.03.2019	Dr. Mausumi Poddar Sarkar Ballygunge Science College, CU	Empowerment of women

### **SCIENCE CAMPS**

\* BITM organized a Summer Hobby Camp for school students and elderly persons from 21<sup>st</sup> May to 2<sup>nd</sup> June, 2018. In all, 474 enrolled.

\* NBSC organized Vacation Hobby Camp from 28<sup>th</sup> May to 2<sup>nd</sup> June, 2018 for school students. During the camp, the students were engaged in experiments and making science projects on Physics, Chemistry, Biology and Mathematics.

\* A five day Summer Hobby Camp was held at Shrikrishna Science Centre, Patna from 21<sup>st</sup> May, 2018. The topics were Basic Electronics, Robotics, Ship Modelling and Aero modelling. 67 students completed 73 projects. A vacation hobby camp on Photography, Life Science, Drawing and Painting was conducted from 28<sup>th</sup> May to 8<sup>th</sup> June 2018. 60 students participated.

\* Vacation Science Camp is being conducted from 21<sup>st</sup> May to 2<sup>nd</sup> June 2018 at DSC, Purulia on Physics, Chemistry, Life Science & Electronics. 69 students have registered.

\* Summer Vacation Hobby Camp was organized at Bardhaman Science Centre on Life Science, Environmental Science, Chemistry, Physics and Robotics from 21<sup>st</sup> to 30<sup>th</sup> May, 2018. 66 students from 5 Institutions participated.

### **EASTERN INDIA SCIENCE & ENGINEERING FAIR - 2019**

\* BITM organized the 44<sup>th</sup> Eastern India Science Fair and the 18<sup>th</sup> Engineering Fair simultaneously from 8 to 12 January 2019. 226 students and 129 guide teachers participated in the EISF with 156 models/projects representing 173 schools from 11 Eastern India states. In the Engineering Fair 63 students and 11 teachers with 26 projects from 11 colleges participated. EISF & EF 2019 was inaugurated on 8<sup>th</sup> January by Shri Keshari Nath Tripathi, Governor of West Bengal in the presence of Prof. Dhruvajyoti Chattopadhyay, VC, Amity University, Kolkata. Prize Distribution was held on 12<sup>th</sup> January. Mr. Masayuki Taga, Consul General of Japan in Kolkata and Shri B.K. Chandra, Chairman, P.C. Chandra Group of Industries gave away the prizes. The Fair was supported by P.C. Chandra Jewellers, MCKV Institute of Engineering, Howrah and Titagarh Wagons Ltd.

**•REGULAR PUBLIC DEMONSTRATION**

**Science Shows on :** Science Magic & Miracle, Super Cold, Surprising Chemical Reactions, Fun Science, Egg-cellent / Fire-y-Tale and Balls, Balloons & Bubbles.

Name of the Centre	No. of Programmes	No. of Audience
BITM, Kolkata	1,595	1,01,448
Digha Science Centre	159	6234
RSC, Bhubaneswar	326	8150
SSC, Patna	605	-
DSC, Purulia	565	11628
Dhenkanal Science Centre	361	9696
Bardhaman Science Centre	407	14460
NBSC, Siliguri	639	31245
Digha Science Centre	159	6234

**•3D SHOW**

Name of the Centre	No. of Programmes	No. of Audience
BITM, Kolkata	2,716	71,391
RSC, Bhubaneswar	1,427	20,460
Digha Science Centre	2312	61680
DSC, Purulia	1161	16026
NBSC Siliguri	2406	62702
Bardhaman Science Centre	1855	32305
Dhenkanal Science Centre	500	8153

**•SCIENCE ON A SPHERE**

SSC, Patna	1607	48210
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**•SHOWS IN PREHISTORIC LIFE PARK**

Name of the Centre	No. of Shows	No. of Visitors
Digha Science Centre	64	1854
RSC, Bhubaneswar	150	2434

**•CHROMAKEY SHOW**

Name of the Centre	No. of Shows	No. of Visitors
BITM, Kolkata	1,184	36,749

**•MATH DEMO**

Name of the Centre	No. of Shows	No. of Visitors
BITM, Kolkata	187	8,724

**•UNDERGROUND COAL MINE DEMONSTRATION**

Name of the Centre	No. of Shows	No. of Visitors
BITM, Kolkata	3,083	80,697

**•SHOWS IN SPARK THEATRE**

Name of the Centre	No. of Shows	No. of Visitors
BIT M, Kolkata	944	40,122



## Science Seminar

Topic - 'Industrial Revolution (IR) 4.0 : Are We Prepared?'

Name of the Museum	Date	Level	No. of Schools	No. of Students Participated	Audience
BITM, Kolkata	30.08.2018	District Level	10	10	207
-do-	06.09.2018	State Level	12	12	159
RSC, Bhubaneswar	28.9.2018	State Level	30	30	170
SSC, Patna		State Level	18	35	92
DSC, Purulia	29.08.2018	District	15	15	122
Dhenkanal Sc. Centre	25.09.2018	District Level	16	16	120
NBSC, Siliguri	24.08.2018	District level	16	16	120
Digha Science Centre	28.08.2018	District level	15	15	90
Bardhaman Science Centre	28.08.2018	District level	16	16	197



## Training

	BITM Cal	RSC Bhub	SSC Patna	DSC Purulia	SC.Cen Bardha	DSC Dhen	NBSC Siliguri	Digha Sc. Cen
<b>Teachers' Training Programme</b>								
No. of Programmes	3	2	1	1	1	1	2	1
No. of Teachers	70	90	36	16	23	7	32	22
No. of Teaching Aids Developed	24	5	48	16	8	28	67	8
<b>Computer Training Programme</b>								
No. of programmes	-	-	-	-	4	-	-	-
No. of Trainees	-	-	-	-	96	-	-	-





## Science Fair

Name of the Museum	Dates	Level	No. of Schools/ Colleges	No. of Students and teachers	No. of Science Clubs	No. of Projects	Visitors
SSC Patna	6.10.2018	District Level	-	435	-	235	525
SC., Bardhaman	12.09.2018 to 13.09.2018	District Level	133	279	-	198	4321
DSC Purulia	29.01.2019 to 31.01.2019	District	25	111	-	95	20,000
NBSC, Siliguri	29.01.2019 to 31.01.2019	Unit	25	118	01	66	2654
BITM, Kolkata	13.09.2018 to 14.09.2018	Kolkata District	61	207	-	70	12118
	8.01.2019 to 12.01.2019	Eastern India Science Fair	173	355	-	156	
		Science and Engineering Fair	11	74	-	26	

### Creative Ability Centre

Name of the Museum	BITM Calcutta	RSC Bhub	SSC Patna	DSC Purulia	SC. Cen Bardha	DSC Dhen	NBSC Siliguri	Digha Science Centre
Projects completed in Museum CAC	20	4	33	21	16	35	16	19
Students Participated	35	20	56	69	35	18	43	60
Vacation Hobby Camps								
Projects completed in above	1978	16	473	39	28	100	43	7
Students Participated	474	186	145	109	84	25	258	28

## OBSERVANCE OF IMPORTANT DAYS

### **Birla Industrial & Technological Museum, Kolkata**

- \* Earth Day - 23<sup>rd</sup> April, 2018
- \* International Museum Day - 18<sup>th</sup> May, 2018
- \* Endangered Species Day - 19<sup>th</sup> May, 2018.
- \* World Environment Day - 5<sup>th</sup> June, 2018
- \* International Yoga Day - 21<sup>st</sup> June, 2018
- \* Rakhi Utsav - 24<sup>th</sup> August 2018
- \* Birth Anniversary of A.P.C. Ray - 2<sup>nd</sup> August, 2018
- \* Independence Day - 16<sup>th</sup> and 17<sup>th</sup> August, 2018
- \* International Science Centre and Science Museum Day - 10<sup>th</sup> November, 2018
- \* Children's Day programme - 14<sup>th</sup> November, 2018
- \* National Mathematics Day - 22<sup>nd</sup> December, 2018

### **Shrikrishna Science Centre, Patna**

- \* Earth Day - 21<sup>st</sup> April, 2018
- \* National Technology Day - 11<sup>th</sup> May 2018
- \* International Yoga Day - 21<sup>st</sup> June 2018.
- \* Moon landing Day - 20<sup>th</sup> July, 2018
- \* Hiroshima & Nagasaki Day - 6<sup>th</sup> & 9<sup>th</sup> August, 2018
- \* International Science Centre & Science Museum Day 10<sup>th</sup> November, 2018
- \* World Toilet Day - 19<sup>th</sup> November, 2018
- \* Women's Day - 24<sup>th</sup> November 2018
- \* National Energy Conservation Day - 14<sup>th</sup> December, 2018

### **Regional Science Centre, Bhubaneswar**

- \* World Health Day - 7<sup>th</sup> April, 2018
- \* World Environment Day - 5<sup>th</sup> June, 2018
- \* Birth Anniversary of Blaise Pascal - 19<sup>th</sup> June, 2018
- \* International Yoga Day - 21<sup>st</sup> June, 2018
- \* Birth Anniversary of Prasanta Chandra Mahalanobis - 29<sup>th</sup> June, 2018
- \* Birth Anniversary of Prafulla Chandra Ray - 2<sup>nd</sup> August, 2018
- \* Birth Anniversary of Amedeo Avogadro - 9<sup>th</sup> August, 2018
- \* Birth Anniversary of Vikram Ambalal Sarabhai - 13<sup>th</sup> August, 2018

- \* Birth Anniversary of Ernest Rutherford - 13<sup>th</sup> August, 2018
- \* Birth Anniversary of Sir Mokshagundam Visvesvaraya - 15<sup>th</sup> September, 2018
- \* Birth Anniversary of Enrico Fermi - 29<sup>th</sup> September, 2018
- \* World Animal Day - 4<sup>th</sup> October, 2018
- \* Birth Anniversary of Scientist Neils Bohr - 7<sup>th</sup> October, 2018
- \* Birth Anniversary of Dr. Homi Jahangir Bhabha - 30<sup>th</sup> October, 2018
- \* Birth Anniversary of Sardar Vallabhbhai Patel as Rashtriya Ekta Divas - 31<sup>st</sup> October, 2018
- \* Vigilance Awareness Week from 29<sup>th</sup> October 2018 to 3<sup>rd</sup> November 2018
- \* International Science Centre & Science Museum Day (ISCSMD) from 10<sup>th</sup> to 17<sup>th</sup> November 2018
- \* National Integration Week from 19<sup>th</sup> to 25<sup>th</sup> November, 2018
- \* Birth Anniversary of Prof. J C Bose - 30<sup>th</sup> November, 2018
- \* Birth Anniversary of Prof. Srinivasa Ramanujan - 22<sup>nd</sup> December, 2018

### **District Science Centre, Purulia**

- \* Earth Day - 20<sup>th</sup> & 22<sup>nd</sup> April, 2018
- \* World Environment Day 5<sup>th</sup> June 2018
- \* International Day of Yoga - 21<sup>st</sup> June 2018
- \* Teachers' Day - 5<sup>th</sup> September, 2018
- \* Hindi day - 14<sup>th</sup> September, 2018
- \* Vigilance Awareness Week from 29<sup>th</sup> October to 3<sup>rd</sup> November, 2018
- \* Rashtriya Ekta Diwas - 31<sup>st</sup> October, 2018
- \* Vigilance Awareness Week 29<sup>th</sup> October to 3<sup>rd</sup> November, 2018
- \* Children's Day - 14<sup>th</sup> November, 2018
- \* Qaumi Ekta Week from 19<sup>th</sup> November to 25<sup>th</sup> November, 2018
- \* World AIDS Day - 1<sup>st</sup> December. 2018

### **Bardhaman Science Centre**

- \* Forestry Week from 21<sup>st</sup> - 27<sup>th</sup> March, 2018
- \* Earth Day - 22<sup>nd</sup> April 2018
- \* International Museum Day - 18<sup>th</sup> May, 2018

### **Observance of Important Days (Contd.)**

World Environment Day - 5<sup>th</sup> June, 2018  
\* International Day of Yoga - 21<sup>st</sup> June, 2018  
World Population Day - 11<sup>th</sup> July, 2018  
\* Observation of Oz-e Day - 16<sup>th</sup> September 2018  
\* Hindi Week from 14<sup>th</sup> to 21<sup>st</sup> September, 2018  
\* Wildlife Week from 1<sup>st</sup> to 7<sup>th</sup> October, 2018  
Birth Anniversary of Mahatma Gandhi - 2<sup>nd</sup> October, 2018  
\* Vigilance Awareness Week - 29<sup>th</sup> October, 2018  
\* Birth Anniversary of Sardar Vallabhai Patel as National Unity Day (Rastriya Ekta Divas) - 31<sup>st</sup> October, 2018.  
\* International Science Centre & Science Museum Day - 10<sup>th</sup> November, 2018  
\* Qaumi Ekota Week from 19<sup>th</sup> to 25<sup>th</sup> November 2018  
\* National Pollution Control Week from 1<sup>st</sup> December to 7<sup>th</sup> December 2018

#### **Dhenkanal Science Centre**

\* Earth Day - 22<sup>nd</sup> April, 2018.  
\* International Day of Yoga - 21<sup>st</sup> June, 2018  
\* World Population Day - 11<sup>th</sup> July, 2018  
\* World Nature Conservation Day – 28<sup>th</sup> July, 2018  
\* Independence Day - 15<sup>th</sup> August, 2018  
\* Hindi Diwas - 14<sup>th</sup> September, 2018  
\* World Ozone Day - 16<sup>th</sup> September, 2018  
\* Vigilance Awareness Week from 29<sup>th</sup> October to 3<sup>rd</sup> November, 2018  
\* International Science Centre and Science Museum Day - 10<sup>th</sup> November, 2018  
\* World AIDS Day - 1<sup>st</sup> December, 2018  
\* National Pollution Prevention Day - 2<sup>nd</sup> December, 2018

#### **North Bengal Science Centre, Siliguri**

\* Birth Anniversary of Dr. B. R. Ambedkar - 14<sup>th</sup> April, 2018  
\* Earth Day - 22<sup>nd</sup> & 23<sup>rd</sup> April, 2018  
\* International Museum Day - 18<sup>th</sup> May, 2018  
\* World Environment Day - 5<sup>th</sup> June, 2018  
\* International Day of Yoga - 21<sup>st</sup> June, 2018  
\* Organ Donation Day - 13<sup>th</sup> August 2018

\* Teachers' Day - 5<sup>th</sup> September, 2018  
\* World Ozone Day - 16<sup>th</sup> September, 2018  
\* World Tourism Day – 27<sup>th</sup> September, 2018  
\* International Science Centre and Science Museum Day - 10<sup>th</sup> November, 2018  
\* Children's Day - 14<sup>th</sup> November, 2018  
Qaumi Ekta Week (National Integration Week) from 19<sup>th</sup> to 25<sup>th</sup> November, 2018  
\* National Integration Day - 19<sup>th</sup> November, 2018  
\* Welfare of Minorities Day - 20<sup>th</sup> November, 2018  
\* Weaker Sections Day - 22<sup>nd</sup> November, 2018  
\* Cultural Unity Day - 23<sup>rd</sup> November, 2018  
\* Women's Day - 24<sup>th</sup> November, 2018  
\* Conservation Day - 25<sup>th</sup> November, 2018  
\* National Mathematics Day - 22<sup>nd</sup> December, 2018

#### **Digha Science Centre**

\* Astronomy Day - 2<sup>nd</sup> May, 2018  
\* International Museums Day - 18<sup>th</sup> May, 2018  
\* International Yoga Day - 21<sup>st</sup> June, 2018  
\* Moon landing Day - 20<sup>th</sup> July, 2018  
\* Anniversary Day of Digha Science Centre - 31<sup>st</sup> August, 2018  
\* Wildlife Week from 1<sup>st</sup> to 7<sup>th</sup> October, 2018  
\* Vigilance Awareness Week from 29<sup>th</sup> October to 3<sup>rd</sup> November, 2018  
\* International Science Centre & Science Museums Day - 10<sup>th</sup> November, 2018  
\* Children Day - 14<sup>th</sup> November, 2018.  
\* Quami Ekta week, 19<sup>th</sup> to 25<sup>th</sup> November, 2018  
\* National Energy Conservation Day - 14<sup>th</sup> December, 2018

## Library Holding

Name of the Museum	Items	Total holding as on 01.04.2018	Acquired during the year	Written-off during the year	Total holding as on 31/3/2019
BITM, Kolkata	Books	16,405	64	-	16469
	Brochure	2,951	24	-	2975
	Journals	8,431	164	-	8595
	Films/Cassettes	919	-	-	919
	CDs	679	-	-	679
RSC, Bhub	Books	923	9	-	932
	Journals	445	-	-	445
	Films 16mm	-	-	-	-
	Video Cassettes	40	-	-	40
SSC, Patna	Books	2282	-	-	2282
	Journals	1356	-	-	1356
DSC, Purulia	Books	1143	-	-	1143
	Films	43	-	-	43
	Cassette	17	-	-	17
	CDs	58	-	-	58
NBSC, Siliguri	Books	364	15	-	379
	Films	5	-	-	5
	CDs	15	-	-	15
Digha Science Centre	Books	362	21	-	283
	CDs	27	-	-	27
Science Centre Bardhaman	Books	328	-	117	211
	Journals	267	24	-	291
	CDs	28	-	1	27
	Films	29	-	8	21
	Video Cassettes	02	-	-	02
Dhenkanal Science Centre	Books	142	-	-	142
	Journals	-	-	-	-
	Films	04	-	-	04
	Video Cassettes	14	-	-	14
	CDs	67	-	-	67

## Staff Strength

Name of the Museum/Centre	Scientific	Technical	Non-Technical	Total
BITM, Calcutta	6	54	39	99
RSC, Bhubaneswar	1	11	7	19
SSC, Patna	2	11	6	19
DSC, Purulia	0	7	2	9
Sc.Cent.Bardhaman	0	8	5	13
Sc.Cent.Dhenkanal	0	6	4	10
Digha Sc. Centre	1	9	3	13
Siliguri Sc. Centre	1	7	5	13
<b>Total</b>	<b>11</b>	<b>113</b>	<b>71</b>	<b>195</b>

## Personnel

Retirement / Resignation/ Death				
Museum / Centre	Name Shri/Smt.	Designation at the time of Retirement /Death/Completion	Date of Retirement or Release / Death/Completion	Remarks
SSC, Patna	Satish Ranjan	Education Officer 'C'	30.06.2018	Superannuation
BITM, Kolkata	Amitava Saha	Technical Officer 'D'	30.09.2018	Superannuation
DSC, Purulia	B. N. Hembram	Driver (Spl. Gr.)	28.02.2019	Superannuation
DSC, Purulia	Ashis Kr. Roy	O. A. Gr. II	09.02.2019	Death
BITM, Kolkata	E. Islam	Curator 'G' & Director	30.11.2018	Superannuation
Appointment				
Museum / Centre	Name Shri/Smt.	Designation	Date of Appointment	Remarks
BITM, Kolkata	Sumit Biswas	Tech Asstt. 'A'	16.07.2018	
SSC, Patna	Aftab Hussain	Edu Asstt. 'A'	27.08.2018	
BITM, Kolkata	Trinath Mahato	Exh Asstt. 'A'	19.11.2018	
BITM, Kolkata	Biswajit Pramanick	Technician 'A'	02.11.2018(AN)	
BITM, Kolkata	Arnab Dey	Tech Asstt. 'A'	06.11.2018	
DSC, Purulia	Patralika Bhattacharjee	O.A.Gr III	17.01.2019	
DSC, Dnkl	Surendra Swain	O.A.Gr III	01.02.2019	
BITM, Kolkata	Sneeta Halder	O.A.Gr III	14.03.2019	
BITM, Kolkata	Saptadeep Bandyopadhyay	O.A.Gr III	15.03.2019	

Promotion				
Museum / Centre	Name Shri / Smt	Designation before promotion	Designation after Promotion / upgradation	Date of promotion / upgradation
Purulia	Ashis Kr Roy	O.A. Gr III	O.A. Gr II	13.04.2018
BITM	Sibupada Roy	O.A. Gr II	O.A. Gr I	01.08.2018
BITM	Deboprasad Peyada	O.A. Gr III	O.A. Gr II	01.08.2018
BITM	Ajoy Kr Singha	Tech 'E'	Tech 'F'	24.04.2018
BITM	Kamal Mondal	Tech 'E'	Tech 'F'	24.04.2019
RSC, BBSR	Rajat Ranjan Sutar	Tech 'E'	Tech 'F'	24.04.2020
RSC, BBSR	R. N. Mohanty	Tech 'E'	Tech 'F'	30.04.2018
RSC, BBSR	K. N. Maharana	Tech 'E'	Tech 'F'	24.04.2018
BITM	P. K. Mitra	Artist 'E'	Artist 'F'	24.04.2019
NBSC, Siliguri	A. N. Mondal	Tech 'E'	Tech 'F'	28.04.2018
BITM	T. K. Morduney	Tech 'E'	Tech 'F'	22.05.2018
BBSR	Ramanath Behera	Tech 'E'	Tech 'F'	03.05.2018
BITM	Satinath Banerjee	Tech 'E'	Tech 'F'	24.04.2018
BITM	P. K. Sarkar	Tech 'E'	Tech 'F'	12.07.2018
DSC, Digha	P. K. Tripathi	Tech 'E'	Tech 'F'	25.06.2018
BITM	P. B. Saren	Tech 'E'	Tech 'F'	28.04.2018
BITM	K. K. Biswas	Tech 'E'	Tech 'F'	24.04.2018

Promotion				
Museum / Centre	Name Shri / Smt	Designation before promotion	Designation after Promotion / upgradation	Date of promotion / upgradation
BITM	Joydev Maity	Tech 'E'	Tech 'F'	24.04.2018
BBSR	P. C. Marndi	Tech 'E'	Tech 'F'	30.04.2018
DSC, Purulia	G. N. Majhi	Tech 'E'	Tech 'F'	10.05.2018
SC, Burdwan	Samir Mondal	Tech 'E'	Tech 'F'	18.06.2018
Sc, Burdwan	Anup Chakraborty	Tech 'E'	Tech 'F'	21.05.2018
BITM	S. K. Dutta	Tech 'F'	Tech 'G'	24.04.2018
BITM	Sk. Mahabat Ali	Tech 'F'	Tech 'G'	31.05.2018
NBSC, Siliguri	Kamalendu Roy	Tech 'F'	Tech 'G'	24.04.2018
BITM	Amit Kr. Mondal	Curator 'B'	Curator 'C'	01.10.2016
BITM	Sreenu Appikonda	Curator 'B'	Curator 'C'	11.11.2017
SSC, Patna	Amitabh	Curator 'C'	Curator 'D'	14.12.2017
BITM	Amitava Saha	Tech. Officer 'C'	Tech. Officer 'D'	05.12.2016
SSC, Patna	Satish Ranjan	Edu. Officer 'B'	Edu. Officer 'C'	24.04.2018
BITM	T. K. Sengupta	Edu. Officer 'C'	Edu. Officer 'D'	02.02.2016
DSC, Digha	Niranjan Gupta	Curator 'C'	Curator 'D'	01.10.2018
BITM	Dilip Ghosh	Edu. Officer 'C'	Edu. Officer 'D'	14.02.2016
BITM	A. B. Bose	Tech. Officer 'C'	Tech. Officer 'D'	02.02.2016
SSC, Patna	Hari Shankar Ray	Driver	Driver Gr. II	09.04.2017
BITM	Nani Gopal Singha	Driver	Driver Gr. II	31.12.2017

Promotion				
Museum / Centre	Name Shri / Smt	Designation before promotion	Designation after Promotion / upgradation	Date of promotion / upgradation
NBSC, Siliguri	Buddadheb Bhattacharjee	Driver Gr. II	Driver Gr. I	06.04.2017
NBSC, Siliguri	Ujjal Das	Tech. 'A'	Tech 'B'	01.02.2018
DSC, Purulia	Amal Kr. Modak	Tech 'B'	Tech 'C'	31.05.2017
DSC, Digha	Ranjit Das	Tech 'B'	Tech 'C'	31.05.2017
DSC, DNKL	Malay kr. Sutar	Tech 'C'	Tech 'E'	15.07.2017
BITM	Ram Chandra Das	Tech 'C'	Tech 'E'	02.08.2017
DSC, DNKL	Satrujit Mallick	Tech 'C'	Tech 'E'	10.02.2018
DSC, Digha	S. N. Achari	Tech 'C'	Tech 'E'	22.02.2018
BITM	Mrinal Mazumder	O. A. Gr. III	O. A. Gr. II	29.10.2018
DSC, Purulia	Mantu Chandra Das	O. A. Gr. II	O. A. Gr. I	Transferred to NCSM Hqrs.
BITM	Murari Jha	O. A. Gr. III	O. A. Gr. II	Transferred to NCSM Hqrs.
BITM	Gautam Seal	Technical Officer 'C'	Technical Officer 'D'	15.03.2019
BITM	Ranjan Mallick	Technical Officer 'B'	Technical Officer 'C'	14.03.2019
BITM	Partha Parbat	Technical Officer 'B'	Technical Officer 'C'	14.03.2019
SC, Burdwan	Nikhiles Biswas	Education Officer 'B'	Education Officer 'C'	14.03.2019
NBSC, Siliguri	Biswajit Kundu	Education Officer 'B'	Education Officer 'C'	14.03.2019
BITM	Tarun Kr. Das	Technical Officer 'B'	Technical Officer 'C'	14.03.2019



Transfer				
Museum / Centre	Name S/Shri/Smt.	Transfer from	Transfer to	Date of Transfer / resignation
BITM, Kolkata	Sibupada Roy	BITM, Kolkata	NCSM (Hqrs.), Kolkata	31.07.2018
NSC, Mumbai	H.P. Mishra	NSC, Mumbai	RSC, Bhubaneswar	13.11.2018 (AN)
BITM	Murari Jha	BITM	NCSM Hqrs.	02.11.2018
BITM	Subhashis Das	BITM	NCSM (NE Zone)	30.11.2018
NCSM Hqrs.	V.S. Ramachandran	NCSM Hqrs.	BITM	30.11.2018
SSC, Patna	Ankur Saha	Patna	BITM	20.12.2018 (AN)

MACP				
Museum/ Centre	Name Shri/Smt.	Designation before promotion	Designation after promotion/ upgradation	Date of promotion/ Upgradation
BITM	Saikat Kundu	Jr. Stenographer	N.A.	21.07.2018
DSC, Digha	Krittibas Mati	Driver (Gr.II)	N.A.	15.10.2018
BITM	Dibakar Biswas	O.A. (Gr.I)	N.A.	16.01.2019

## Expenditure

<b>GIA / Salaries / General (Rs. in Lakhs)</b>									
Particulars	BITM, Kolkata	SSC., Patna	D.S.C., Purulia	R.S.C., Bhub	S.C., Bardh	S.C., Dhen	Digha S.C.	N.B.S.C, Siliguri	Total
A. GIA Salaries	1096.77	139.55	66.30	168.21	96.90	61.83	79.83	88.29	1797.68
A. GIA General	1294.80	140.75	57.51	109.19	67.98	67.86	72.13	84.64	1894.86
Gross Exp.	2391.57	280.30	123.81	277.40	164.88	129.69	151.96	172.93	3692.54
B. Receipts	136.14	117.15	30.40	46.41	35.42	12.24	127.77	81.97	587.50
C. Net Exp.	2255.43	163.15	93.41	230.99	129.46	117.45	24.19	90.96	3105.04
<b>GIA - CCA (Rs. in Lakhs)</b>									
Gross Exp.	102.43	78.44	28.01	13.19	34.53	2.77	9.21	44.15	312.73
Total Exp. (Gross) GIA - Salaries + General + CCA	2494.00	358.74	151.82	290.59	199.41	132.46	161.17	217.08	4005.27

<b>Expenditure (2017-18) nnovation Hub (Rs. in Lakhs)</b>								
Particulars	BITM, Kolkata	S.S.C., Patna	DSC Purulia	R.S.C., Bhub	S.C., Bardh	DSC Digha	NBSC Siliguri	Total
Gross Exp	15.14	16.55	64.23	19.57	10.10	106.47	9.33	241.33

## COMMITTEE MEMBERS OF BITM AND SATELLITE UNITS

### *Executive Committee of BITM*

Sl. No.	Name and Address
1	Prof. Sibaji Raha, <b>Chairman</b> Former Director, Department of Physics, Bose Institute, Unified Academic Campus, EN 80, Sector V, Bidhan Nagar, Kolkata – 700 091
2.	Prof. Rajib Bandyopadhyay, <b>Member</b> Dept. of Instrumentation and Electronics Engg., Jadavpur University, B-73-80, Plot No.8, Salt Lake Bypass, LB Block, Sector III, Salt Lake City, Kolkata -700 098
3.	Dr. Bhupati Chakraborty, <b>Member</b> Former Professor, Dept. of Physics, City College 23, Imbrahimpur Road, Jadavpur, Kolkata – 700 032
4.	Dr. Jayanta Sengupta, <b>Member</b> Secretary & Curator, Victoria Memorial Hall, 1, Queens Way, Kolkata – 700 071
5.	Mrs. Rupkatha Sarkar, <b>Member</b> Principal, La Martiniere for Girls, 14, Rowdon Street, Kolkata – 700 017
6.	Shri Vinay K. Goenka, <b>Member</b> Executive Chairman, Warren Tea Ltd. Suvira House, 4B, Hungerford Street, Kolkata – 700 017
7.	The Secretary or his nominee, <b>Member</b> Dept. of School Education, Govt. of West Bengal Bikash Bhavan, 5 <sup>th</sup> & 6 <sup>th</sup> floor, DF Block, Sector 1, Salt Lake City, Kolkata – 700 091
8	The Director (Museums), <b>Ex-officio Member</b> Ministry of Culture, Govt. of India 323-C Wing, Shastri Bhawan, Dr. Rajendra Prasad Road, New Delhi : 110 015
9	Shri A. D. Choudhury, <b>Ex-officio Member</b> Director General, National Council of Science Museums 33, Block – GN, Sector – V, Bidhan Nagar, Kolkata – 700 091
10	Shri V. S. Ramachandran, <b>Ex-officio Member</b> Director, Birla Industrial and Technological Museum, 19A, Gurusaday Road Kolkata – 700 019
11	Shri Rajib Nath, <b>Ex-officio Member</b> Curator 'E', BITM, 19A, Gurusaday Road, Kolkata – 700 019.
12	Shri Subhashis Paul, <b>Non-member Secretary</b> Dy. Controller of Administration BITM, 19A, Gurusaday Road, Kolkata – 700 019.

**Planning & Programme Committee of BITM**

1. **Dr. Bhupati Chakraborty** **Chairman**  
Former Professor, Dept. of Physics, City College,  
23, Imbrahimpur Road, Jadavpur Kolkata – 32
2. **Smt. Madhumita Sengupta** **Member**  
Principal, Asoke Hall Girls' H. Secondary School  
5A, Sarat Bose Road Kolkata – 700 020
3. **Dr. Gautam Majumdar** **Member**  
Professor & Head, Mechanical Engineering  
Dept.  
Jadavpur University, Kolkata – 700 032
4. **Director General or his nominee** **Member**  
**National Council of Science Museums**  
33, Block – GN, Sector – V Bidhan Nagar, Kol – 91
5. **Dr. Saumitra Mohan** **Member**  
Commissioner, Directorate of School Education,  
Govt. of West Bengal, 7th floor, DF Block,  
Sector-1, Bikash Bhawan, Salt Lake Kolkata – 91
6. **Mr. Abid Hossain** **Member**  
Director, Directorate of Madrasah Education  
Govt. of West Bengal, Bikash Bhawan, Salt Lake,  
Kolkata – 700 091
7. **Dr. Maitree Bhattacharyya** **Member**  
Director, JBNSTS, 1300, Rajdanga Main Road,  
Kasba, Kolkata – 700 107
8. **Dr. Suman Lata** **Member**  
Principal, KV, Ballygunge, Kolkata – 700 019
9. **Director, Ex-officio Member**  
BITM, 19A, Gurusaday Road, Kolkata – 700 019
10. **Shri Subhashis Das** **Member**  
Curator, BITM, 19A, Gurusaday Road, Kol – 19
11. **Shri Rajib Nath** **Member**  
Curator, BITM, 19A, Gurusaday Road, Kol – 19
13. **Dr. Abdullah Mondal, Member Secretary**  
Curator, BITM, 19A, Gurusaday Road, Kol – 19

**Building Committee of BITM**

1. **Shri S. K. Bhattacharyya, Chairman**  
Director General (Retd.), HIDCO and  
KMDA71/2/2, Satyen Roy Road, Behala,  
Kolkata – 700 034
2. **Shri Anup Kumar Ghosh, Member**  
Director General of Operation (Retd.) Flat  
No. A-2, 2<sup>nd</sup> Floor, Tulip Apartment 282,  
Parnasree Pally, Kolkata – 700 060
3. **Dr. Bhaskar Sengupta, Member**  
Chief Engineer, Rabindra Bharati  
University Emerald Bower Campus,  
56A, B. T. Road Kolkata – 700 050
4. **Director, Ex-Officio Member**  
BITM, 19A, Gurusaday Road, Kolkata – 19
5. **Shri G. K. Mahapatra, Ex-Officio Member**  
Dy. Chief Engineer, National Council of  
Science Museums 33, Block – GN, Sector –  
V, Bidhan Nagar, Salt Lake City, Kol – 91
6. **Shri Subhashis Paul, Ex-Officio Member**  
Dy. Controller of Administration BITM,  
19A, Gurusaday Road, Kolkata – 700 019
7. **Shri Arup Chakraborty, Ex-Officio Member**  
Dy. Controller of Finance & Accounts  
BITM, 19A, Gurusaday Road, Kolkata – 19
8. **Shri Saikat Sikdar, Member Secretary**  
Executive Engineer BITM, 19A, Gurusaday  
Road, Kolkata – 700 019
9. **Invitee Members**  
To be invited based on requirement for  
discussing specific Buildings projects of  
NCSM

**Local Advisory Committee of  
Shrikrishna Science Centre, Patna**

1. **Prof. (Dr.) R. K. Sinha,** Chairman  
Vice Chancellor, Nalanda Open University,  
Biscoman Bhawan Patna – 800 001
2. **Dr. Ashok Kr. Ghosh,** Member  
Chairman, Bihar Pollution Control Board, Patna
3. **Dr. Nityanand Prasad** Member  
Director, Indira Gandhi Science Complex  
Planetarium, AdalatganjBailey Road,  
Patna – 800 001
4. **Mrs. Kiran Kumari** Member  
State Programme Officer, Bihar Education  
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